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प्राधिकार से प्रकाशित
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नई दिल्ली, शनिवार, जुलाई 21, 1990 (आषाढ़ 30, 1912)

No. 29]

NEW DELHI, SATURDAY, JULY 21, 1990 (ASADHA 30, 1912)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह आलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE
PATENTS AND DESIGNS
Calcutta, the 21st July 1990

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The States of Gujarat, Maharashtra, Madhya Pradesh and Goa, the Union Territories of Daman and Diu and Dadra and Nagar Haveli.

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Patent Office Branch,
Unit No. 401 to 405, III floor,
Municipal Market Building,
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New Delhi-110 005.

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Telegraphic address "PATENTOFIC".

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The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office (Head Office)
"NIZAM PALACE", 2nd M.S.O. Bldg.,
5th, 6th and 7th floor,
234/4, Acharya Jagdish Bose Road,
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS"

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees :—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by Bank Draft or Cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

पेटेंट कार्यालय

एकस्य तथा अधिकस्य

कलकत्ता, दिनांक 21 जुलाई 1990

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में स्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोकी हस्टेट,
तीसरा तल, लोअर परेल (पश्चिम),
बम्बई-400 013

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोआ, दमन तथा दिव एवं दादरा और नगर हवेली।

तार पता—''पेटोफिस''

पेटेंट कार्यालय शाखा,
इकाई सं० 401 से 405, तीसरा तल,
नगरपालिका बाजार भवन,
सरस्वती मार्ग, करोल बाग,
नई दिल्ली-110 005

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली।

तार पता—''पेटेंटोफिस''

पेटेंट कार्यालय शाखा,

61, वालाजाह रोड,

मद्रास-600 002

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप, मिनिक्ॉय तथा एमिनिदिवि द्वीप।

तार पता—''पेटेंटोफिस''

पेटेंट कार्यालय (प्रधान कार्यालय),
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय

—मवन 5, 6 तथा 7वां तल,
234/4, आचार्य जगदीश बोस रोड,
कलकत्ता-700 020

भारत का अवशेष क्षेत्र

तार पता—''पेटेंट्स''

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुल्क : —शुल्कों की अदायगी या तो नकद की जाएगी अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अथवा डाक आदेश या जहाँ उपयुक्त कार्यालय स्थित है, उस स्थान के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट अथवा बैंक द्वारा की जा सकती है।

CORRIGENDUM

In the "GAZETTE OF INDIA" (Part III, Section-2) dated 23rd September, 1989, under the heading complete specification accepted in complete specification number 838/Cal/85 SI No. 165336 read the name of applicant as RCA-LICENSING CORPORATION instead of RCA CORPORATION.

CORRIGENDUM

Patent Application No. 418/Cal/1986 filed on 4th June 1986, the acceptance of which advertised in the "GAZETTE OF INDIA (Part III, Section-2) dated 16th September 1989 as having Patent No. 165316 will proceed in the name of Centro Sviluppo Material S.P.A. instead of Centro Sperimentale Metallurgico S.P.A.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE
234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed Under Section 135, of the Patents Act, 1970.

The 11th June, 1990

485/Cal/90. Sri Prajnal Datta. Biological cells from green leaf.

486/Cal/90. E.I. Du Pont De Nemours and Company. Improved Cr₂O₃ catalyst composition.

487/Cal/90. E.I. Du Pont De Nemours and Company. Improved coagulating process for filaments.

488/Cal/90. Development Consultants Ltd. Smart metering system.

489/Cal/90. Prasanta Kumar Mahapatra. 12 volt direct current power converter system from different energy sources.

The 12th June, 1990

490/Cal/90. N.V. Philips' Gloeilampenfabrieken. Magnetic-tape cassette.

491/Cal/90. Metallgesellschaft Ag. Corona discharge electrodes. [Divisional dated 8th July, 1987].

492/Cal/90. Stopinc Ag. Refractory stator/rotor unit for a valve in the outlet of a vessel containing a metal melt.

493/Cal/90. Atochem North America, Inc. Breaking emulsions of alkanesulfonyl chlorides in aqueous hydrochloric acid.

494/Cal/90. E.I. Du Pont De Nemours and Company. Stabilized polyacetal compositions.

495/Cal/90. Globe-Union, Inc. Switched Dual battery system.

The 13th June, 1990

496/Cal/90. Nauchno-Proizvodstvennoe Obiedinenie "Nefteavtomatika" USSR. Turbine rate-of-flow transducer.

497/Cal/90. NGK Insulators, Ltd. Porous gypsum mold and method of manufacturing the same.

The 14th June, 1990

498/Cal/90. (1) Bohler Pneumatic International Gesellschaft m.b.H, (2) Veitscher Magnesitwerke-Actien-Gesellschaft. Arrangement for the removal of worn nozzle bricks or brick linings in metallurgical vessels.

499/Cal/90. Westinghouse Electric Corporation. Improvements in or relating to solid state trip unit for DC circuit breakers.

500/Cal/90. Hitachi Construction Machinery Co. Ltd. Hydraulic drive system for crawler mounted vehicle.

The 15th June, 1990

501/Cal/90. Swapan Kumar Putatunda. Rice puffing plants cyclone process electrically operated produced puffed rice and others.

502/Cal/90. Hoechst Aktiengesellschaft. Process for the preparation of azo pigments.

503/Cal/90. E. I. Du Pont De Nemours and Co. A system useful for continuously propelling linear synchronous motor secondaries along an elongated linear motor primary. [Divisional dated 17th June, 1987].

504/Cal/90. Interstate Chemical, Inc. Blended gasolines and process for making same.

505/Cal/90. Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H Tamping unit and tamping tine for track tamping machine.

506/Cal/90. The Babcock & Wilcox Company. Insulated pipes/conduits.

The 19th June, 1990

507/Cal/90. Ashis Kumar Das. Improved parameter evaluation in oil/gas well testing methods.

508/Cal/90. Isover Saint-Gobain. Mineral fibres collection process and device.

509/Cal/90. E.I. Du Pont De Nemours and Company. Polyester fiber balls and method of making same. [Divisional dated 19th October, 1987]

510/Cal/90. Hoechst Aktiengesellschaft. Process for the preparation of 6-acyloxy-2-naphthoic acids.

511/Cal/90. Yuan-Ho Lee. Modular concrete form.

512/Cal/90. Yuan-Ho Lee. Fastener for form panels.

513/Cal/90. Yuan-Ho Lee. Apparatus for positioning and supporting an inner mold panel of a form.

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES, THIRD FLOOR, SUN MILL COMPOUND, LOWER PAREL (WEST), BOMBAY-400 013

The 11th May, 1990

108/Bom/90. Mukund Gopal. Improvements in or relating to loud speaker baffle boxes for high fidelity sound reproduction.

109/Bom/90. Hindustan Lever Ltd. 12-5-89, Gr. Britain. Soap composition.

110/Bom/90. Hindustan Lever Ltd., 12-5-89, Gr. Britain. Cosmetic composition.

111/Bom/90. Centre for Development of Advanced Computing. Graphics & Intelligence Based Script Technology.

112/Bom/90. Hoechst India Ltd. A novel process for the preparation of 6 β -substituted amino-propionyl- $\sqrt{7}$ -deacetyl-forskolin derivatives.

113/Bom/90. Hoechst India Ltd. Process for the preparation of 6-substituted aminopropionyl derivatives of forskolin using the 1, 9-O-Isopropylidene protecting group.

114/Bom/90. Hoechst India Ltd. A novel process for the preparation of 6-acyl, 7-acyl and 6, 7-diacyl analogues of forskolin and intermediates thereof.

115/Bom/90. Prabhakar Ganesh Bhide. Automatic Fuel Delivery Takeover System.

The 14th May, 1990

116/Bom/90. The Silk & Art Silk Mills Research Association. Preparation of high strength adhesive from polyester waste.

117/Bom/90. The Associated Cement Companies Ltd. A device and process for reutilisation of kiln dust referred to as 'ESP dust' in a rotary kiln by wet process of cement manufacture.

118/Bom/90. Shyam Bhagwandas Kewalramani. A swivel type snap-on coupling assembly for flexible hose and the like.

119/Bom/90. Lupin Laboratories Ltd. A process to manufacture Gold-Sol-Antibody.

The 15th May, 1990.

120/Bom/90. Babubhai Nanubhai Patel & 5 Others. Mechanical Shrub Cutter.

121/Bom/90. Babubhai Nanubhai Patel & 21 Others. An external connection free appliance or stove.

122/Bom/90. Babubhai Nanubhai Patel Gajera & 5 Others. A mechanical artificial rainer.

The 16th May, 1990

- 123/Bom/90. Hindustan Lever Limited. Nickel/Silica catalyst and the preparation.
- 124/Bom/90. Hindustan Lever Limited. Cosmetic composition.
- 125/Bom/90. Subhash Digambar Chavan. A water filter.

The 17th May, 1990

- 126/Bom/90. The Boots Company (India) Limited. Therapeutic Agents.
- 127/Bom/90. The Boots Company (India) Limited. Therapeutic Agents.
- 128/Bom/90. The Boots Company (India) Limited. Therapeutic Agents.
- 129/Bom/90. The Boots Company (India) Limited. Therapeutic Agents.
- 130/Bom/90. The Boots Company (India) Limited. Therapeutic Agents.
- 131/Bom/90. The Boots Company (India) Limited. Therapeutic Agents.

The 18th May, 1990

- 132/Bom/90. Dilipbhai Dhanjibhai Sompura. Semiautomatic diamond (Gem) polishing mill.

APPLICATIONS FOR PATENTS FILED AT THE PATENT
OFFICE BRANCH, 61, WALLAJAH ROAD,
MADRAS-2

The 4th June, 1990

- 434/Maa/90. Puthenveetil Varkey George. A slung surface conveyor.
- 435/Maa/90. Narender Surana. A method for joining cables.
- 436/Maa/90. Enichem Augusta S.p.A. Improved process for preparing paraffin-sulfonic acids.
- 437/Maa/90. Mihoji Tsamura. Apparatus for reproducing music and displaying words.
- 438/Maa/90. Union Carbide Chemicals and Plastics Company Inc. Method of treating fabrics and other substrates with exhaustible cationic silicones.

The 5th June, 1990

- 439/Maa/90. Charles O'Halloran. Cue rest. (September 7, 1989; United Kingdom).
- 440/Maa/90. Mannesmann Aktiengesellschaft. Apparatus for adjusting the position of an electrode.
- 441/Maa/90. Himont Incorporated. Thermoplastic elastomer of propylene polymer material and crosslinked ethylene-propylene rubber.

- 442/Maa/90. Kinergy Corporation. Vibratory type storage bin arrangement with internal baffling and low profile bottom. (May 3, 1990; Australia)

- 443/Maa/90. Nokia-Maillefer Holding S.A. A cable reeling apparatus.

The 6th June, 1990

- 444/Maa/90. V. Isaac Abraham. Folding type cycle.
- 445/Maa/90. Sandoz Ltd. Admixture for concrete mixes.
- 446/Maa/90. The Chamberlain Group, Inc. Ramp systems for assembling and disassembling highway trailers and railtrucks for intermodal transportation. (September 18, 1989; Canada).
- 447/Maa/90. Firma Dietze & Schell Maschinenfabrik GmbH. Procedure for air testurizing and relevant device to carry out the procedure.

The 7th June, 1990

- 448/Maa/90. Maschinenfabrik Reinhausen GmbH. Tap selector for a tapped transformer.
- 449/Maa/90. Promod Kapur. A drinking system for chickens.
- 450/Maa/90. Micro Motion, Inc. Improved stability coriolis mass flow meter.

ALTERATION

- 166793 (223/Cal/87) Anti-dated 18th June, 1984
- 166812 (949/Maa/85) Anti-dated 31st December, 1982.
- 166817 (586/Maa/87) Anti-dated 28th August, 1987
- 166818 (940/Maa/87) Anti-dated 28th October, 1985

CLAIM ON SECTION 20(1) OF THE ACT

Claim made by RCA CORPORATION on 17th November, 1988 to proceed application for Patent No. 861/Cal/85 (Sl. No. 165338) in their name has been allowed and the application will proceed in the name of RCA LICENSING CORPORATION.

PATENTS SEALED

- | | | | | | | |
|--------|--------|--------|--------|---------|--------|--------|
| 163431 | 165416 | 165417 | 165418 | 165427 | 165437 | 165440 |
| 165444 | 165446 | 165448 | 165449 | 165484 | 165485 | 165497 |
| 165502 | 165503 | 165507 | 165513 | 165515 | 165516 | 165534 |
| 165535 | 165564 | 165569 | 165572 | 165604 | 165606 | 165611 |
| 165612 | 165613 | 165621 | 165628 | 165629 | 165630 | 165631 |
| 165632 | 165635 | 165637 | 165638 | 165640. | | |

CAL—14
MAS—13
DEL—8
BOM—5

COMMERCIAL WORKING OF PATENTED INVENTIONS
MECHANICAL LIST NO. VI

The following Patents in the field of Mechanical General Engineering Industry are not being commercially worked in India as admitted by Patentees in the statements filed by them under section 146(2) of the Patents Act, 1970 in respect of calendar year 1988 generally on account of want of request for licences to work Patented invention. Persons who are interested to work the said Patents commercially may contact the patentees for the grant of a license for the purpose.

Patent No.	Date of Patent	Name and Address of the Patentee	Title of the invention
158648	23-5-1983	A. Ahlstrom or SF-29600 Noormarkku, Finland.	An apparatus for recovering heat from gas containing molten components.
143834	26-4-1976	Albany International Corporation, 1373, Broadway, Albany, New York-122 201, USA.	Device for controlled release of vapours.
150980	28-11-1978	Albe S.A. 6982, Agno, Switzerland.	A device for edging the points of ball pens in particular those made of hard material.
161130	30-1-1984	Alejandro Stein Residencias Sierra Nevada, Calle Chula Vista, Chula Vista Las Mercedes, Caracas, Venezuela.	An end connector for connecting two or more hollow tubular structural members.
147650	15-2-1977	Alexander George Copson, 52 High Street, Yaddethorpe, Southorpe Lincolnshire, England.	Normally closed gas exhaust valve and diving gas recovery system incorporating the same.
159073	4-8-1983	Alexander I. Kalina 12214 Clearfork, Houston, Texas-77077, USA.	An improved system for Generation of energy.
152804	24-10-1980	Allen sterling Johnson Jr., 1235 West Henderson Street, Salisbury, North Carolina, U.S.A.	Apparatus for preheating an aggregate material in combination with a rotary kiln by a heated gas directed through the kiln.
154547	15-10-1981	Allflex International Ltd., 931, Tremaine Avenue, Palmerston North, New Zealand.	One-piece identification tags.
156123	30-3-1982	Alligator ventill fabrik GmbH, Postfach 1120, 7928, Siengen/Brenz, West Germany.	Air valves for tubes or tyres.
150211	26-8-1978	Allware Agencies Ltd., Co. Whinney Murray & Co., 57 Chiswell Street, London, EC 1 Y GSY, England.	Clutch mechanism and fans comprising the same.
150432	24-8-1978	Anstalt Mura Im Lett 26, Vaduz, Principality of Liechtenstein, Switzerland.	Apparatus for the production of carbon black.
159386	25-1-1984	ARAP. Applications Rationnelles de la Physique 70 Rue Yvan Trougue, Neff 78380, Bougival, France.	A wheel for a centrifugal compressor and a method of making such a wheel.
150694	23-5-1979	Arbed, Acleries Reunies Burbach-Eich-Dudelange Societe Anonyme Avenue de la Liberte, Post Box No. 1802, Luxembourg.	Apparatus for cooling rolled metal products.
159133	22-7-1983	Atlantis Energie AG Thunstrasse 8, 3000 Bern 6, (Canton of Berne), Switzerland.	Apparatus for automatically directing solar radiation focussed by a reflector and a solar power plant comprising such apparatus.
154338	12-6-1980	Automotive Products Plc. Tachbrook Road, Leamington Spa, Warwickshire CV 31 3 ER, England.	Ball and socket joints.
155069	19-9-1981	Avery-Hardoll Ltd., Downley Road, Havant, Hants PO 9 2 NW, England.	Liquid storage and measurement system.
156348	22-10-1981	Avulunga Pty. Ltd., 1 Elouera Street, Bray Park, Murwillunbah, New South Wales, Australia.	Improved laryngoscope blade.

1	2	3	4
153259	11-9-1979	Bakelittfabrikken A/S Drammensveien 30-Oslo 2, Norway.	Method of producing molded bodies of expanded plastic.
154250	6-3-1981	Beheermaatschappij H.D. Groenveld B.V. No. 542, Ringdijk, 2987 Vz Bolnes, The Netherlands.	A fire-proof wall.
157196	10-8-1982	Bennes Marrel S.A. Zone Industrielle Snd. Andrezienx, Botheon, Loire, U.S.A.	Hydraulic slide valve for cylinders of mine props.
156150	17-12-1982	Bernard Zimmern 27, rue Dalabordee 72200, Neuilly Sur Seine, France.	A volumetric machine with screw and pinion wheels.
155654	24-1-1983	Bernd Stoy and Erich Pohlmann respectively of AM Scherfenstein 6,4030 Rotingen 8, West Germany and Kadaldhbeinsweg 1, 8650 Kulmbach, West Germany.	Heating and/or cooking device with a solar collector.
155922	7-12-1981	Prof-Bhagwat Kundalik Dhonde, 1195/B, Shivaji Nagar, Tulpule Bldg., F.C. Road, Pune-411008, Maharashtra.	Floating siphon.
159447	5-10-1983	Bigelow-Sanford Inc., P.O. Box 3089, Greenville, South Carolina, U.S.A.	Shipping pallet and container.
159842	12-4-1983	Bivona Inc. 5700, West 23rd Street, Gary Indiana 46406, U.S.A.	Device for reversibly occluding a bodyduct.
159483	15-2-1984	Blohm & Voss, AG. Hermann-Blohm-Strasse 3,2000 Hamburg 11, West Germany	Ship with several decks and longitudinal and transverse carrying members.
160079	3-12-1982	Blohm & Voss AG. Hermann-Blohm-Strasse 3,2000 Hamburg, 11, West Germany.	A warship.
155067	24-7-1981	Boerge Martins, 150 Arster Heerstrasse, D-2800, Bremen, F.R.G.	A fixing member adapted to be clamped to a shaft like member.
161720	3-5-1985	Brian Alan Bennett, 53, Marphett Road, Canadian Park, State of South Australia.	Rotary nibbler.
148978	3-8-1977	BTR LTD., Silvertown House, Vincent Square, London, SW1P 2 PL. England.	Support and/or locating means for rails tracks.
152329	9-5-1979	Burroughs Corporation, of Burroughs Place, Detroit, Michigan 48232, U.S.A.	Self-contained relocatable memory subsystem.
155182	22-12-1980	Carrier Corporation Carrier Tower, P.O. Box-4800, Syracuse, New York-13221, U.S.A.	Shaft seal and fluid flow control device for use with a rotary machine.
154221	21-8-1981	Centre De, Recherches Metallurgiques—centrum voor Research in de metallurgie, 47, rue Montoyer, 1040, Brussels, Belgium.	Method of manufacturing steel reinforcements for concrete having improved properties.
146287	24-10-1977	Charles W. Reed, 5174, Brookside Lane Concord, 94514, USA.	A method and apparatus for purification of water from powerplant steam cycle.
149213	4-9-1979	Chefaro Pharmaceuticals Ltd., Himalaya House, 38, Chowringhee, Road, Calcutta-700 071, W.B. India.	Intra uterine contraceptive device.
155874	4-5-1982	Cipa Construzione Iniettori Pompe Accessori, S.P.A. Via, G.C. Puecher, 6, Faderno, Dugnano (Province of Milano), Italy.	Injector-pump for diesel engines.

1	2	3	4
156557	20-5-1982	Clayton Dewandre Co. Ltd., P.O. Box 9 Titanic Works, Lincoln, LNS 7 JL, U.K.	An improved reciprocating exhaustor driven by diesel engine.
149694	27-8-1979	College of Agriculture Deptt. of Agricultural Engg. Konkani Krishi Vidyapeeth, Dapoli 415712, Dist. Ratnagiri, Maharashtra State, India.	A stickler.
159949	11-5-1983	Compagnie Europeenne Du Zirconium Cezus 10 Rue du General Foy, 75008, Paris, France.	Apparatus for local expansion shaping of tubes.
157929	24-2-1983	Conoco Inc., P.O. Box, 1267, Ponca City, OK 7460, U.S.A.	Delayed cooking process for minimizing the coke yield.
159691	24-11-1983	Conti Romano 37 Via Pier Delia Francesca Prato, Italy.	A postal module.
151876	22-3-1980	Coolair Corporation Pvt. Ltd., of suite 03-17, Central Bldg. 1 & 2, Magazine Road, Singapore-0105	An improved evaporative air cooler.
147193	21-3-1977	Coopervision Inc., 2801 Orchard Parkway, San Jose, California 96134, U.S.A.	A mold constructed of thermoplastic material and a process for producing contact lenses.
152515	7-12-1979	Dr. C. Otto & Co., Lmbh. of Christstrasse, 94630, Bochum West Germany.	Vertical chamber for the continuous dry quenching of coke.
158919	19-12-1983	Dr. C. Otto & Co. GmbH. of Postfach 101850, D-4630, Bochum 1, West Germany.	Device for levelling the coal charged into the coking chamber of a coke oven.
158200	31-12-1983	Dr. C. Otto & Co., GmbH. Postfach 101850, D-4630, Bochum 1, West Germany.	Coke oven door.
154260	17-10-1981	Craelius AB, Box 20513, S-161 20, Bhumma, Sweden.	Device for disengaging a grappling means from a core barrel.
155066	24-7-1981	Crane Packing Limited Cross Bow House, Liverpool Road, Slough, England.	Mechanical face seal incorporating bellows unit.
145222	8-7-1975	Creusot-Loire 42, Rue D' Anjou, 75008, Paris, France.	A body to bogie Connection for rail vehicles.
144742	21-7-1976	Davidson & Co. Ltd., Bridge End, Belfast, Northern Ireland.	Rotary regenerative preheater.
149228	12-1-1979	Davy International Aktiengesellschaft Borsigallee, 1-7, D-6000 Frankfurt/Main 60, West Germany.	Shaft furnace for gasifying fine grained fuels in a fluidised bed.
157082	16-11-1982	Detmar Gurnfeld Ann Brunnen 24, D-4980, Bunde 1, West Germany.	A process for the production of bicycle frames and forks as well as to the bicycle frames and bicycle forks produced by this process.
159445	29-9-1983	Diversified Products Corporation, 309, Williamson Avenue, P.O. Box 100, Opelika, Alabama 36802, USA.	A leg lift exercise device.
157987	2-9-1983	Dobson Park Industries Plc. Dobson Park House, Colwick Industrial Estate, Nottingham, England.	Mine roof supports.
159844	28-4-1983	Dorr-Oliver Inc., 77 Havemeyer Lane, P.O. Box 9312, Stamford, CT, 06904, USA.	Fluidized bed boilers.
159436	14-9-1983	Eagleair, Inc. 1150, Mauch Chunk Road, Bethlehem, Pennsylvania 18018, U.S.A.	Burner register assembly.
154459	3-9-1981	Edgar Malcolm, Stubbersfield etc., Jubilee Street, Gatton, Queensland 4343, Australia.	Notching tool.

1	2	3	4
148137	15-4-1976	Electronique Marcel Dassault, 55 Quai Carnot 922/4, Saint Cloud, France.	Apparatus for guiding a rotating moving body.
143912	24-11-1975	Elkotrade AG, Chamestar, 50, Zug, Switzerland.	Process and apparatus for producing compound thin films.
151110	5-1-1979	Environmental Elements Corp., 3700 Koppers Street, Baltimore, MD, 21227, U.S.A.	A cell system made of synthetic plastic material for multi-cell granular media filters.
159741	17-8-1983	Envirotech Corporation, with Offices in Salt Lake City, Utah, U.S.A.	A sedimentation apparatus for separating solids from a mixture of liquids and solids.
145973	31-8-1976	Escher Wyss Ltd., Zurich, Switzerland.	Improvements in or relating to contactless seals.
157721	20-6-1983	Etablissements Morel Faviers-28170, Chateaufen, Thymeraia, France.	A sleeve for protecting cable splices.
156722	5-3-1982	Flogates Ltd., of Sardiron House, Beauchief, Sheffield S7 2RA, England.	Metal pouring apparatus.
159000	30-3-1983	Flogates Limited Sandiron House, Beauchief, Sheffield S7 2RA, England.	Sliding gate valves and components thereof.
159360	9-9-1983	FMC, Corporation 200 East Radndolph Drive, Chicago, Illinois 60601, U.S.A.	Telecontrol system for cranes.
157307	23-10-1982	Mrs. Frances Hedrich Johnson, 1235 West Henderson, Street, Salisbury, North Carolina, U.S.A.	An improved internal collection type air filterbag for filtering particulate material.
158337	12-5-1982	G.D.J. Whitehead and T.H. Gardner, Gaveston, 131, Cowick Lane, Exeter, Devon, U.K., and 8 Haven Road, Exeter, Devon, U.K., respectively.	An improved bedding material for poultry or other animals.
161049	22-5-1984	GEA GmbH, Konigsallee 43-47, 4630, Bochum, F.R.G.	Heat exchanger.
151668	8-3-1979	Gebruder Adams Armaturen N. Apparate G.m.b.H. & Co., Kg. D-4630, Bochum, Postfach 1001, 05, West Germany.	Improved disc valve.
146204	2-2-1976	Gebruder Ahle, 5251 Kartstahl, West Germany.	A round wire helical compression spring particularly for use in motor vehicles.
155232	6-1-1982	General Supply Construction Co. Ltd., 25, Stour-nari Street, P.O. Box 640, Athens, Greece.	Apparatus having cooperating rotors for constructing fuel with a compressible oxidising gas to produce combustion gases.
154225	30-10-1981	Geophysical Company of Norway AS, Veritasveien 1, 1322, Hovik, Norway.	Apparatus for preparing charts of seismic data.
145828	7-9-1977	George Spiro Reppas 1030 Sau Raymundo Road, Hillsborough, California 94010, U.S.A.	Combination bed and desk.
153753	30-1-1981	Shri Gour Dham Trust (Regd.), Shri Radhakund, Mathura, U.P. India.	A power loom.
159158	25-5-1983	Grant Engine Design and sales Inc., 1323 Korshner Road, Puyallup, Washington 98375, U.S.A.	Internal combustion engine.
145346	19-6-1976	Haemmerle AG, CH-4800, Zofingen, Switzerland.	Bending tool.
150083	11-7-1978	Hans Ulrich Klingenberg, 3274, St. Niklaus bei, Merzligen, Canton of Berne, Switzerland.	Watchcase.

1	2	3	4
159401	20-3-1984	Heckforth GmbH & Co., Kg. Heerstrasse 66, 4690, Herne, 2, West Germany.	A resilient shaft coupling.
148406	9-12-1977	Hacobe Textilmaschinen GmbH & Co. Kg. of 5600, Wuppertal 2, Federal Republic of Germany.	Bobbins for thread-form or strip-form material.
154469	1-10-1980	Harlacher AG, Gartenstrasse 7, 8902, Urdorf Switzerland.	Apparatus for coating a flat printing screen on one or both sides with a photosensitive emulsion.
150716	24-1-1979	Harold Ashley McMaster Etc., 420, Water Street, Woodville, Ohio, U.S.A.	Apparatus for bending and tempering glass sheet.
156495	9-2-1982	Harold A McMaster 707, Riverside Drive, Woodville, Ohio 43469, U.S.A.	Glass sheet roller conveyer furnace including gas jet pump heating.
159484	8-3-1984	Harsco Corporation, 350 Poplar Church Road, Camp Hill, Pennsylvania 17011, U.S.A.	Bridge Launcher.
160208	16-4-1984	Heinz Kaiser AG, Glattalstrasse 837, 8153, Rumlang, Switzerland.	Boring tool.
147779	21-6-1977	Helix Limited, Helix Works, Engine Lane, Lye Stourbridge, West Midlands, Dy. 97 AJ, England.	A drawing compass.
148492	18-7-1977	—do—	A drawing instrument.
148493	18-7-1977	Helix Limited, of Helix Works, Engine Lane, Lye Stourbridge, West Midlands, DY 97 AJ, England.	A drawing instrument.
157316	23-10-1982	Hendrikus Van Berk H. Govertkade 3, 2628 EA Delft, The Netherlands, etc.	Apparatus for suctioning submerged bottom material.
155162	16-10-1980	Henred Fruehauf Trailers (Pty) Ltd; Private Baag, 5 Bergavleel, Transvaal 20121, South Africa.	An improved folding freight carrier.
159096	30-10-1983	Henri C. Lasater P.O. Box 616, Cuba, New Mexico, 87013, U.S.A.	Liquid degasification device.
151303	10-7-1979	Henry James Fenroy Gerrand, 25 Haldane Street,, Beaumaris 3195 Victoria, Australia.	Method of forming wheels or pulleys and wheels or pulleys thereby formed.
156406	7-8-1982	Honda Giken Kogyo Kabushiki Kaisha, 8-GO, 27-ban, Jingumae, 6-chome, shibuya-ku, Tokyo, Japan.	Accelerator pump actuating device for a carburettor.
158979	15-1-1983	Honda Giken Kogyo Kabushiki Kaisha No. 27-8, 6' Chome, Jingumae, Shibuya-ku, Tokyo, Japan.	Gang head for a replaceable gang head machine tool.
153940	15-9-1980	Hoshang D.P. Pavri 17 Camac Street, Calcutta-700017, West Bengal, India.	An apparatus for printing.
160968	2-1-1984	Hubert Eirich of Sandweg 1, Hardheim West Germany, etc.	Apparatus for closing and continuously emptying the container of a treatment machine.
154001	3-4-1980	Hughes Aircraft Co. Centinela and Teale Street, Culver City, State of California, U.S.A.	Hydrazine thruster.
154585	4-2-1982	Hyderabad Asbestos Cement Product Ltd., of Sanat Nagar, Hyderabad-500018, Andhra Pradesh.	A machine or apparatus for the manufacture of asbestos cement sheets.
161281	30-7-1982	Hydro-Quebec, 75 West. Dorchester, Boulevard, Montreal, Quebec, Canada.	A transferred plasma reactor for chemical and metallurgical applications.

1	2	3	4
159549	28-1-1983	Imperial Chemical Industries Plc. Imperial Chemical House, Millbank, London, SW1P, 3 JF, England.	Apparatus for the characterisation of a surface coating film.
160901	18-4-1984	Imperial Chemical Industries Plc. Imperial Chemical House, Millbank, London, SW1P 3 JF, England.	A Nestable container.
155563	13-10-1982	Indian Jute Industries, Research Association, 17, Tharatola Road, Calcutta-700088, West Bengal, India.	Improvements in and relating to method for processing jute and allied fibres for spinning into jute.
154651	31-5-1980	Instytut Obrobki Plastycznej, Ul. Zamenhofa 2/4, Poznam, Poland.	Forging device.
162089	8-6-1984	International Isobauw Sales Office N.V. Pietermasi 16 A, Willemstad, Curacao, The Netherlands Antillies.	Method for manufacturing light-weight shaped concrete articles.
156695	12-3-1982	Isora Oy, a Co. of Sf 38200 Vammala, Finland.	Improved building elements for wall and roof construction purposes.
156768	15-10-1982	Jack B. Keown, Hageler-Strasse 71, CH-5400, Baden, Switzerland.	Spring element for absorption of a force acting opposite or at an angle to the former force.
154466	16-7-1980	James Patrick Connolly, 26 Waterloo Park, Belfast B15, SHU, Northern Ireland.	Improvements in or relating to tanks or like liquid containers.
162108	1-12-1983	J. & D. Oram Ltd. 243 Heath Road, Leighton, Buzzard, Bedfordshire, England.	Lamp unit for providing a patch of substantially shadow-free illumination.
159030	2-5-1983	Jens Ole Sorensen P.O. Box 2274, Rancho Santa Fe, CA92067, U.S.A.	Improved method of forming a floating barrier or blanket coverites for solar heating of water and a barrier therefor.
155463	12-11-1981	J.M. Manufacturing Co. Inc. of 1051, Sperry Road, Stockton, California 95206, United States of America.	An elongated strip of plastics material for forming a tube made thereby.
144962	28-4-1976	John Alvin Eastin P.O. Box 389, Grant, Nebraska, U.S.A.	Apparatus for nitrogen fertilizing.
157156	8-10-1982	John Frank Riera etc., 3689 Sandburg, Troy MI 48034, U.S.A.	A cutoff machine for severing elongated material.
159091	20-8-1983	John Stephen Nitachke, 650 W, Front Street, Perrysburg, Ohio, 43551, U.S.A.	Apparatus and method for locally heating conveyed glass sheets.
160111	31-8-1983	John Stephen Nitachke 650, W, Front Street, Perrysburg, Ohio 43551, U.S.A.	A positioning controller for conveyor in a glass sheet processing equipment.
154189	5-9-1980	Jose Coelho DOS Santos, Estrada DOS Arneiros, 46-10 DTO, Lisbon, Portugal.	Fit-in block for construction of buildings.
160720	31-12-1984	Kabushiki Kaisha Itoh Seitetsusho, 14-10, Hirai, 5-Chome, Edogana-ku, Tokyo, Japan.	Apparatus for soaking steel pieces.
156654	6-5-1982	Karl Eckhart Heinz Niebuhrstrasse 49, D-5300 Bonn 1, West Germany.	An equipment for carrying out the process for the compression of redundant sequences of serial data elements.

1	2	3	4
160324	10-2-1984	Kasumasa Sarumaru, 8-27, Kinmitsu-cho, Ashiya, 659, Japan.	Apparatus for vulcanizing a tire.
160926	2-12-1983	KMK Karl Magerle Lizeng AG, Baarerstrasse 57, 6300 zug, Switzerland.	A tool for moulding the outlet end part of a plastics container.
152342	21-1-1980	Koninklijke Emballage, Industrie Van Leer B.V. Amsterdamsweg 206, Amstelveen, The Netherlands.	A method and tool for producing a bushing structure having a polygonal flange.
158983	17-2-1983	Korting Hannover AG Badenstedter Str. 56, 3000, Hannover 91, West Germany.	Burner for pulverized, gaseous and or liquid fuels.
152327	23-6-1981	Kusel Equipment Co. 820 West Street, P.O. Box-87, Watertown Wisconsin 53094, U.S.A.	An improved portable cheese press frame assembly.
161069	4-6-1984	Laboratoires Boiron, 20 Rue de La Liberation, Sainte Foy Les, Lyon (Rhône), France.	Apparatus for the manufacture of globules, granules, small balls or the like from a material, such as sugar.
151887	7-3-1979	Leonard Ornstein 5 Biltom Road, White Plains, New York, 10607, U.S.A.	An osmotic relative humidity sensor-regulator valve.
148463	11-8-1978	Lydall Inc. of Mani Street, Rogua, Connecticut 0 6263, United States of America.	A process of forming high density insulating board.
151820	8-11-1979	Maag Gear Wheels & Machine Co. Pvt. Ltd., of P.O. Box cit. 8023, Zurich/Switzerland.	Cant-segment-radical bearing for heavily loaded high-speed shafts.
157938	16-7-1983	Maatschappij Tot Exploitatie Van Stork Ketels B.V. No. 1, Industrieplein, 7553 LL, Hengelo, The Netherlands.	Vertical radiation tank.
154449	26-11-1981	Maplan Maschinen-Und TECH. etc., A-1010, Wien, Schellinggasse 1, Austria.	Double-worm extrusion press.
154140	9-1-1980	Marco Gatti Via Bonaldo Stringher 27, 00191, Rome, Italy.	Apparatus for unloading dryloads from ships.
155569	4-11-1981	Maaschinenfabrik Rieter AG, Winterthur, Switzerland.	Spinning machine, in particular ring spinning machine.
157072	25-5-1982	Maasey-Ferguson Services N.V. Abraham-De Veerstraat 7A, Curacao, Netherlands.	Lockable pedal arrangements.
159983	20-6-1984	Maasey-Ferguson Services N.V. Abraham De Veerstraat 7A, Curacao, Netherlands Antilles.	Vehicle drive arrangement.
154626	1-7-1981	Matija Cenarovic 2567 Annelyn Court, Mississauga, Ontario, Canada L5C, 2Z7.	Method for repairing a metal pipe by expanding it by a controlled amount at a predetermined location there along and a device for carrying out said method.
159535	15-3-1983	Med Inventio A.G. Seestr. 359, CH-8038, Zurich-Wollishofen, Switzerland.	Tubular pessary having a contraceptive action.
161467	6-5-1985	Medacan B.V. P.O. Box 420, 1440 AK Purmerend, The Netherlands.	Disposable blood sampling unit.
153967	26-6-1981	Melvin Bernard Herrin, 1156 Mill Road, Rydal, Pennsylvania 19046, U.S.A.	Combination folding container.
149562	6-12-1978	Menk Appartebau GmbH, 5439 Bad Marienburg, F.R.G.	Radiator for cooling the oil of filled transformers.

1	2	3	4
161917	7-2-1986	Metallurgical & Engineering Consultants (India) Ltd., Ranchi-834002, Bihar, India.	Blast furnace cast house runner system.
156494	2-3-1976	M.H. Detrick Co. Ltd., 275/281 King Street, Hammersmith, London, England.	Improvements relating to refractory insulating modules.
161070	12-11-1984	Microdot Inc., 23 Old Kings Highway South, Darien, Connecticut-06820, U.S.A.	Seal assembly for a grooved circular piston or the like.
157198	1-10-1982	Mineral Deposits Ltd., 81 Ashmore Road, South Port, Queensland, Australia.	Improvements in or relating to spiral separators.
147570	18-7-1978	Mining and Allied Machinery Corporation Ltd., Durgapur 713210 Burdwan, West Bengal, India.	Dry shade extractor.
157158	15-11-1982	Molins Plc., 2 Evelyn Street, London SE8 5 DH, England.	Feeding particulate material especially tobacco.
145700	10-8-1976	Monovis B.V. Keizergracht 253, Amsterdam, The Netherlands.	Fluid working machine having a rotatable screw.
159717	8-9-1983	Moshe Guez 96 Jerusalem Boulevard, Ramat Gan, Israel.	Apparatus for applying titles, animations or translations and the like to cinematic films.

**COMMERCIAL WORKING OF PATENTED INVENTIONS
MECHANICAL LIST NO. VII**

The following patents in the field of Mechanical and General Engineering Industry are not being commercially worked in India as admitted by patentees in the statements filed by them under section 146(2) of the Patents Act, 1970 in respect of calendar year 1988 generally on account of want of request for licences to work the patented invention. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a license for the purpose.

Patent No.	Date of Patent	Name and address of the Patentee	Title of the invention
1	2	3	4
157662	3-1-1983	Nalumn Sylvain, 16 Avenue Dumas 1206, Geneva, Switzerland.	Tooth Brush.
159948	23-5-1984	NEFF Gewindespindeln GmbH, Alfred-Ritter-Strasse 47, D-7035 Waldenbuch, F.R.G.	Circulating ball work drive.
154609	24-11-1980	Neotronics Limited, Parsonage Road, Takeley, Bishops Cleeve, Hertfordshire, England	Apparatus for measuring the degree of efficiency of combustion appliances.
161254	16-1-1984	Nippon Clean Engine Research Institute, 205-3, Kitayasuemachi, Kanazawa-shi, Ishikawa-ken, Japan.	A two stroke internal combustion engine.
159120	6-3-1984	Nippon Steel Corpn., 6-3 Ontemachi-2-chome, Chiyoda-ku, Tokyo, Japan.	Raw materials charging device for preheating raw materials in the process of steel making.
161048	26-4-1984	NL Industries Inc., 1230 Avenue of the Americas, New York, N.Y. 10020, U.S.A.	A gate valve assembly.
160230	20-12-1984	Norddeutsche Affinerie AG, Alsterterasse 2, D-2000 Hamburg 36, F.R.G.	Apparatus for producing ignitable solid-gas suspensions.
155545	3-9-1975	N.V. Bekaert S.A., 8550 Zwevegem, Belgium.	Method of making a reinforcing strip.

1	2	3	4
155276	14-3-1983	N. V. Safinco, Kennedy Park 8, 8500 Kortrijk, Belgium.	Process for separating solids from oils.
151894	18-4-1980	Opti Patent Forschungs- und Fabrikations A.G. of CH-8750, Riedern, Allmeind.	Slide fastener.
149939	4-5-1978	Ormat Turbines (1965) Ltd. New Industrial Zone, Yavne, Israel.	A heat storage pond.
150001	22-5-1979	Oswald Brunn, Bunzlauer Platz, D-8000 Munchen 50, West Germany.	Combination furniture
143366	21-6-1975	Otto Junker GmbH, Lammersdorf of 5107 Simmerath, F.R.G.	Procedure for casting quantities of molten metal and device for carrying out this procedure.
154759	6-10-1980	Otto-Simon Carves Ltd., Europa House, Bird Hall Lane, Cheadle Heath, Stockport, Cheshire, England.	Method and apparatus for producing coke.
159547	21-12-1982	Otto-Simon Carves Ltd., Europa House, Bird Hall Lane, Cheadle Heath, Stockport, Cheshire, England.	A larry car for transporting a charge of pre-heated coal.
147515	9-5-1977	OYE Sarlin, Kaivoksela, Finland.	Impeller.
152596	20-2-1980	Oylojja Ab a Finnish Co., of ahenajantie 3,02100 ESPOO 10 Finland.	Method of producing a compound thin film of different elements on a substrate surface and apparatus for carrying out the same.
152747	1-4-1981	Outokumpu OY Finnish Body Corporate of Outokumpu, Finland.	Intrauterine birth control devices and a method for manufacturing the same.
158703	4-8-1983	Paromec Engineering Limited, Bilton Centre, Coronation Road, High Wycombe, Buckinghamshire, HP 12 3 TA, England.	Method and apparatus for cleaning wire and the like.
159427	14-11-1983	Perkins Engines Group Ltd., 33 Davies Street, London W1Y 2 EA, England.	Clamp for an internal combustion engine fuel injector.
157197	20-8-1982	Philip Morris Inc., 100 Park Avenue, New York, N.Y. 10017, U.S.A.	Process for the production of tobacco lamina-filler with improved stiffness and increased filling power and a tobacco lamina filler produced thereby.
148736	1-6-1979	Piarey Lal Chopra, Main Road, Ranchi-834001, Bihar, India.	Device for storing and line arrangements.
161066	27-3-1984	Precision Fasteners Gesellschaft Fur Verbindungstechnik mbH, D-8450 Amberg, Federal Republic of Germany.	Self cutting threading insert.
150509	23-6-1978	Rexnord Inc., of 4701, W. Greenfield Avenue, Milwaukee, Wisconsin.	Method and apparatus for coating the inner surface of a pipe.
153924	20-2-1980	Richard Florencio Blaser, 14416 Innsbruck Court, Silver Spring, Maryland 20906, U.S.A.	An apparatus for carrying out energy conversion cycle for internal combustion engine.
155791	18-12-1981	Richard J. Monro 41 Sunset Lane, Ridgefield, Conn-06877, U.S.A.	Improved heat generator.
157702	12-10-1982	Riavin-Ricerche E Sviluppo Via Di Vigorso 3, 40054, Budrio, Bologna, Italy.	Apparatus for the handling of products or articles for example sweets and cigarettes by operative means carried in continuous movement.

1	2	3	4
144046	21-4-1975	Riva Calzoni S.P.A. Via Stendhal 34, Milano, Italy.	Water level control valves in tanks.
150764*	4-12-1978	Robert Bosch GmbH, Postfach 50,7000 Stuttgart 1, Federal Republic of Germany.	Centrifugal governor particularly for varying the instant of spark ignition or instant of fuel injection in internal combustion engine.
158745	25-3-1983	Robert Bosch GmbH, Postfach 50,7000 Stuttgart 1, Federal Republic of Germany.	Improvements in or relating to high voltage spark plugs.
155189	16-2-1981	Robert Cassou Rue Clemenceau, 61300 L'Aigle France.	Apparatus for transferring animal reproduction elements especially animal embryos and semen.
161300	5-4-1983	Robert Henry Abplanalp, 10 Hewett Avenue, Bronxville, Westchester County, New York, U.S.A.	Dispensing cap for use with pressurized containers.
157775	28-7-1982	Roberto Perlini Corso Venezia 93, 37047 San Bonifacio Verona, Italy.	Device for straight travelling stabilization and change of attitude on pre-determined paths for vehicle axles.
159237	3-1-1983	Ronald A. McMaster 420 Water Street, Woodville, Ohio 43469, U.S.A.	An improved apparatus for handling heated glass sheets.
161407	21-3-1985	Roy William Buckland 35 Pennycroft, Pixton, Way Forestdale Crydoncro 9LL, England.	Improvements in shuttlecocks.
159488	3-5-1984	Rune Lohman, Smedjevagen 16, 131 33 Nacka, Sweden.	Brake for bicycles.
152624	20-3-1980	Russel Mathews Industries Ltd., Devon Road, New Plymouth, New Zealand.	A container for containment of a bituminous product.
149349	23-6-1979	Ryosuke Hosoi 5-9-10, Kami-Minami, Hiranoku, Osaka, Japan.	An improved drill for high feed machining operations.
161089	15-7-1985	Saarbergwerke AG, Triener Str. 1, D-6600 Saarbrücken, West Germany.	A ramming machine to produce compressed coalcakes for coking.
161025	13-5-1983	Samarendra Kumar Sengupta, 85/1B, Bank Plot, Calcutta-700 031, State of West Bengal, India.	A reflecting road stud for a reflecting road beacon.
148521	27-8-1977	Sam Sonite Corporation, 11200 East Forty-Fifth Avenue, Denver, Colorado 80239, U.S.A.	Luggage latch mechanism.
154438	4-7-1981	Scal Societe De Conditionnements En Aluminium, 47 rue de Monceau-75008 Paris, France.	A method of manufacturing metallic strips by continuous casting between rolls.
145850	29-3-1977	Schaleco Ventechnik Kufstein Gesellschaft mbH, A-6330, Kufstein, Stafeven, Australia.	Process for producing a perforation pattern metal foil in pressure screen printing and a pressure printing screen produced thereby.
159354	10-8-1983	Schorling GmbH & Co., Schorlingstrasse 3, 3000 Hanover-Lindea, F.R.G.	Truck.
147611	15-9-1977	Schottel-Werft Josef Becker GmbH & Co., Kg. 5401 Spay/Rhein, F.R.G.	Power driven vessel.
160800	2-4-1982	Sealed Power Corporation, 100 Terrace Plaza, Muskegon, Michigan 49443, USA.	Transmission fluid filter and method of manufacture.
161851	6-12-1984	Sicpa Holding SA Hauptstrasse 9, 8750 Glarus, Switzerland.	Transfer printing sheet method of preparing transfer printing sheet and transfer printing of textile materials.

1	2	3	4
143958	24-11-1976	Simon-Hartley Ltd., Etruria Works, Stoke-on-trent, Staffordshire, England.	An aerator and an installation for the aerators of a liquid incorporating it.
157461	6-9-1982	Societe Francaise De Munitions, 11 Impasse Gaudelet 75011, Paris, France.	A cartridge for hand and shoulder weapons.
158824	19-7-1983	Societe Industrielle De Transports Automobiles "Sita" 7 rue de Logelbach 75017, Paris, France.	An improved apparatus for charging solids under compression into a receptacle.
148594	29-6-1977	Societe Internationale De Macanique Industrielle S.A. 37 Rue Notre -Dame-Luxembourg, Grand Duché of Luxembourg.	Improvements in centrifugal pumps.
149931	20-6-1979	Somnath Roy 229 B.N. Road, Calcutta-60, State of West Bengal, India.	Machine for effecting withering of tea leaves.
145684	15-6-1976	Spie-Batignolles Tour Anjou 33, Quai Puteaux, Hauts-de-sein, France & Electricite De France, 2, Rue Louis Murat, Paris 8 eme, France.	A device for protecting a structure against effects of high horizontal dynamic stresses.
162552	21-3-1985	Srutl Bandopadhyay and Swati Bandopadhyay, 144, Jodhpur Park, Calcutta-700068, West Bengal.	Self cooling water bottle.
155462	15-10-1982	Sri Subhajit Das C/o. Sri Anil Kumar Mandle, 18 Elgin Road, Calcutta-20	Potentiometric recorder based on null detection principle.
152194	22-1-1981	Subratakumar Ghosh, 32 G.B. Mondal Road, P.O. Ichapur, Nawabgunj, 24-Parganas, West Bengal.	An amphibian vehicle.
154924	19-10-1981	Surendra Kumar Jain, 101/2, Hospital Road, Jaipur, 302001, India.	An animal drawn vehicle.
151725	12-9-1979	Susann Inca Clecia Runeiman of 6 Birudale Crescent, Mount Osmond, State of South Australia.	Apparatus for the administration of parental fluids.
157365	21-12-1982	Sven-Erik Schedwin Box 8280, Falun, Sweden.	Arrangement for transferring heavy work pieces.
157771	21-5-1982	Tai Her Yang 5-1 Tay St., Shi HWU Jenn, Jeng Huah Shiann, Taiwan, Republic of China.	A system for surveying railway tracks.
158384	5-7-1985	Mr. Tarun Gupta C/o. Coal Inspection Services, P.O. Dhansar, Dist. Dhanbad, Bihar, India.	An improved tank for the recovery of fine coal ash and other minerals from a water slurry of same.
159742	18-8-1983	The Charles Stark Draper Laboratory, Inc. 555 Technology Square, Cambridge, Massachusetts, 02139, U.S.A.	System for controlling the position of a strip of material with respect to a linear movable seam joining device.
146292	18-5-1976	The Monotype Corporation Limited, Salford, Redhill, Surrey, RH1 5JP, England.	Optical scanning apparatus.
149177	17-8-1976	Telehoist Limited, Manor Road, Cheltenham, England.	Telescoping mechanism and a multi-stage hydraulic ram including the same.
149199	1-11-1977	Tex Innovation AB, P.O. Box 5006 S-42105 Vastra Prolunda 5, Sweden.	Method of producing a conditioned fibrous materials with a reduced tendency to wrinkle vacuum packaging and if desired vacuum packing the so obtained materials.
159152	25-5-1984	Theo Schroders Gerhard-Welter-Strasse 7, 5140 Erkelenz, West Germany.	A fire-protective closure or seal for an opening in a building.
150796	20-3-1980	Theo Stahler Muhlenhof 6253 Hadamar 2, West Germany.	Device for aerating sewage or sewage-sludges.

1	2	3	4
149719	20-3-1978	Tideland Signal Corporation, P.B. 52430, Houston, Texas, 77052, U.S.A.	Enclosure for solar cell panel and solar cell panel including the enclosure.
148113	28-10-1977	Tomoe Technical Research Company, 2-91-1, Honjya-Naka, Higashi-Osaka-Shi, Osaka, Japan.	Butterfly valve.
145049	13-10-1977	Tsurumi Soda Co. Ltd., 7, Suchirocho-1-chome Tsurumi-ku, Yokohamashi, Kanagawa-Ken, Japan.	Apparatus for expanding destroying and softening structures of animals and fibrous materials.
159878	2-3-1983	Uddcomb Sweden AB, Box 1840, S-371 24 Karlskrona, Sweden.	Drop hammers for driving piles or the like into the ground.
148474	29-3-1977	Unelec S.A. 38, Avenue Cleber 75784, Paris Cedex 16, France.	An interchangeable three phase tripping device for a three pole circuit breaker.
156802	26-3-1982	Unisearch Limited 221-227 Anzac Parade, Kensington, New South Wales, Australia-2203.	Improvement in wind driven machine.
151274	10-9-1979	Unisystems Pvt. Ltd., 25 Community Centre, East of Kailash, New Delhi-110 024	Containers.
161326	25-8-1984	Unisystems Pvt. Ltd., 25 Community Centre, East of Kailash, New Delhi-110 024	A pouch for holding and dispensing of a liquid.
151958	22-10-1979	United Technologies Corporation, of 1, Financial Plaza, Hartford, CT 06101, U.S.A.	A withdrawal method of directional solidification of a casting of metal or alloy for producing a directionally solidified article and a directionally solidified article thus produced.
157173	3-9-1982	—do—	Method of manufacturing a metal workpiece and finishing metal surfaces by surface treatment of workpieces.
158212	16-3-1983	—do—	A wind turbine system for generating electric power.
158707	5-11-1983	—do—	The blade pitch angle control system for a wind turbine generator.
158792	2-6-1983	—do—	Blade feathering system for wind turbines.
159485	23-3-1984	—do—	A method of manufacturing a gas turbine engine having an annular combustion liner.
159954	5-11-1983	—do—	A system for minimizing the effect of yaw oscillations in a wind turbine.
162026	3-12-1984	—do—	A method of manufacturing high strength and low weight composite materials.
151080	6-10-1978	University of Manchester Institute of Science & Technology of Manchester England & of Etruna works, stock on trent staffordshire England.	Apparatus for growing microorganisms with a supply of suitable nutrient materials.
156694	27-2-1982	USS Engineers and Consultants Inc. 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Improvements in the pouring of molten metals.
150424	10-5-1978	Vakuum Vulk Holdings Ltd., of 360, Queen Street, Nassau/Bahamas.	Method of and device for retreading worn pneumatic or solid rubber tyre and a type retreaded by said method.
153730	29-12-1980	Vallourec SA 7 Place Du Chancelier Adenandeur-75116, Paris, France.	A method of producing an assembl by fixing a tube by expansion.

1	2	3	4
162388	1-10-1985	Valmet OY Instrumentitehdas, SF-33101, Tampere, Finland	Connecting device measuring instruments.
155690	3-6-1982	Veb Dampfautomat Leipzig 7021 Leipzig, Zachortauer 96, G.D.R.	Process and burner for producing a rotating powdered-coal flame.
151307	15-11-1979	Veb Kombinat Textima DDR-9010 Karl-Marx-Stadt, Althimnitzer Strasse 46, G.D.R.	Flat bed combing machine for preparatory treatment of fibres.
159912	6-3-1984	Veb Kombinat Feinmechanische Werke Halle DDR-402, Halle, Rudolf-Breitscheid-Str. 71 G.D.R.	A method and a device for producing an inner tube with transverse ribs for a double walled special gas discharge tube with a high angle selectivity.
162264	6-3-1984	—do—	Laser resonant equipments.
154631	10-7-1981	Veb Schweremaschinenkombinat 'Ernst Thälmann' Magdeburg, 3011, Magdeburg, Marienstrasse 20, G.D.R.	Method and apparatus for the heat treatment of fine granular material.
156019	28-7-1982	Vickers Incorporated of 1401 Crooks Road, Troy, Michigan 48084, United States of America.	Hydraulic power transmission or control system.
158679	16-6-1983	Vickers Incorporated 1401 Crooks Road Troy, Michigan 48084, U.S.A.	A hydraulic power transmission system for engine driven vehicles.
159265	17-3-1983	—do—	A hydraulic control system for power transmission.
153020	11-6-1982	Vinodrai Vanravandas Barchha of Flat No. 9B (9th Floor) Neelkamal 41 Elgin Road, Calcutta-20.	Improvements in or relating to multiwick stoves.
153021	11-6-1982	—do—	Improvements in or relating to multiwick liquid fuel such as kerosene stoves.
158184	20-6-1983	V.M. Rao Consultants Pvt. Ltd., 4, Damodharpuram, Vannathurai Road, Adyar, Madras-600 020, Tamil Nadu.	An equipment for effecting crystallisation of sugar dextrose or like viscous and semiviscous substance.
151397	19-7-1979	Vyzkumny Ustav Bavlnarsky Usti nad Orlici, Czechoslovakia.	Apparatus for removing dirt particles from staple fibres and for straightening said fibres in an open-end spinning process.
157733	4-3-1982	—do—	Open-end spinning machine.
161227	27-6-1984	Vyzkumny Ustav Inzenierskych Stavich Bratislava, Lamaška Cesta 8, Czechoslovakia.	Apparatus for excavating boreholes or channels.
154597	30-6-1981	Wagener Schwelm GmbH & Co., In der Gaslake 20, D-5830 Schwelm, F.R.G.	An apparatus for the repair of rubber or plastics conveyor belts and for making them endless.
159297	10-5-1983	Walter Grato Rossi Plot 164, Montana, Pretoria, Transvaal Province, Republic of South Africa.	Wheel trench support
150301	18-6-1979	Dr. Werner Freyberg Chemische Fabrik Delitia Nachf, Bergstrasse 6941, Landenbach, F.R.G.	Applicator means for pest control agents.
156296	18-6-1979	—do—	Applicator apparatus for pest control agents.
153843	18-11-1980	Dr. Werner Stahl Stalbuschweg 80, 6740 Landau, West Germany.	A filtering apparatus.
159291	6-4-1983	Werner Welland Koblenz-Olper-Strasse 172 D-5413 Bendorf-Saya, F.R.G.	A temperature measuring device for detecting the ovulation of women.

1	2	3	4
154614	13-10-1981	West Point Foundry & Machine Co. Georgia P.O. Box 151, West Point, Georgia 31833, U.S.A.	A method and an apparatus for producing sized wrap yarn.
155504	5-2-1982	Wolfgang Priesemuth Postkamp 13, D-2210 Itzehoe-Nordoe, West Germany.	Acetylene gas reactor particularly for fuelling a motor vehicle engine.
160822	1-8-1983	Yair Daar, Moshav Galia, Israel and Shimon Yahav, 61 Remez Street, Rehovot, Israel.	Electrically powered depilatory device.
148408	21-2-1978	Youngflex S.A., 1, Rue Fries, 1701 Fribourg, Switzerland.	Cushion support element.
159355	12-8-1983	Zabrazanska Fabryka Maszy etc. Zabre, Ul Wolnooci 318, Poland.	Dehydrating centrifugal sieve.
160326	25-5-1984	Zaklady Azotowe Im. 33-101, Tarnow, Poland.	Improvements in or relating to reactor for selective oxidation of organic compounds.
160677	14-6-1984	Dobson Park Industries Plc. Dobson Park House, Colwick Industrial Estate, Nottingham, England.	An electrically operated valve assembly
160705	18-4-1984	Dayco Products Inc. 333 West First Street, Dayton Ohio 45402, U.S.A.	A polymeric article having a fabric layer.
161959	23-8-1984	ELI Comen 350 Continental AVE, Paramus N.J. 07652 U.S.A.	A solar collector tracking system.
161954	18-7-1984	Esmil B. V. P. O. Box 7811, 1008 AA Amsterdam, The Netherlands.	Apparatus for carrying out physical and/or chemical processes, more specifically a heat exchanger of the continuous type.
162052	21-7-1984	Fornac Valves Ltd., 25 Charlotte Square, Edinburgh, EH2, 4 EZ, U.K.	Ball valve assembly for pipeline.
162223	16-8-1984	Graf & Cie Alte Johastrasse, 8640 Rapperswil, Switzerland.	A card clothing for carding machines.
162331	24-8-1984	John N. Basic Sr. 21W161 Hill Street, Glen Ellyn, Illinois 60137, U.S.A.	A material handling system
154718	5-9-1981	Dr. Jose Thakkattil University Health Centre, Calicut University, P.O. Kerala State.	Comb.
162334	4-9-1984	Lucas Industries Public Limited Co. Great King Street, Birmingham 19, England.	Actuator assemblies for vehicle brakes.
163344	21-11-1984	—do—	A hydraulic pressure supplying master cylinder incorporating an internal reservoir.
161657	10-8-1984	Marion Kazimierz Edward Czerniak, 52 Aspley Park Drive, Nottingham, England.	Self-propelled waterborne vessel.
160795	23-8-1984	Mitsubishi Denki Kabushiki Kaisha, No. 2-3, Marunouchi 2-chome Chiyoda-ku, Tokyo, Japan.	Control apparatus for hoisting drum elevator.
161367	13-11-1984	Schubert & Salzer Maschinenfabrik AG, Friedrich Ebert-Strasse 84, 8070 Ingelstadt, W. Germany.	Support disc bearing.
161687	6-9-1984	Sumitomo Metal Industries Ltd., 15 Kishahama, 5-chome, Higashi-ku, Osaka-shi, Japan, Osaka.	Apparatus for gasifying carbonaceous material
162234	27-8-1984	Unie Van Kunststofabrieken B.V. Maliebaan 81, 3581 CG, Utrecht The Netherlands.	Process for the preparation of granules.

1	2	3	4
153097	10-11-1981	Santra Delimited P.O. Box 321, CH-6002, Linern, Switzerland.	Cutting tool.
155159	1-9-1981	Council of Scientific & Industrial Research, Rafi Marg, New Delhi-1, India.	Crack free lime kiln of the vertical masonry shaft type.

COMMERCIAL WORKING OF PATENTED INVENTIONS ELECTRICAL LIST NO. V

The following patents in the field of Electrical Engineering Industry are not being commercially worked in India as admitted by patentees in the statements filed by them under Section 146(2) of the Patents Act, 1970 in respect of Calendar year 1988 generally on account of want of request for licences to work the patented invention. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

Patent No.	Date of Patent	Name & Address of the Patentee	Title of the Invention
1	2	3	4
161036	28-07-1983	Adrian March Ltd, 7 Argyle Close, White Hall, Bordon, Hampshire GU 35 9PU, England.	Position sensor.
157216	14-06-1979	Amerace Corporation, 555 Fifth Avenue, New York, New York 10017, U.S.A.	A process for producing micro-porous polymeric products.
153140	13-11-1980	Aashi Glass Co. Ltd. No. 1-2 Marunouchi 2-chome Chiyoda-ku, Tokyo, Japan.	An improved process for electrolyzing and an ion exchange membrane cell for carrying it out.
155396	28-08-1981	—do—	An improved filter press type electrolytic cell.
162105	29-10-1983	Asea-Jumet Societe Anonyme, Zoning Industriel, B 6040 Charleroi-Jumet, Belgium.	A method of manufacturing an autoregurable capacitor and a capacitor manufactured by that method.
146424	13-04-1977	BABF Corporation, Williamsburg, State of Virginia, 23185, U.S.A.	Integral, electrically-conductive textile filament.
161982	14-11-1983	Ceramtech Limited, 23rd Floor, AMP Building, 140 St. Georges Terrace, Perth 6000, Western Australia, Australia.	Oxygen probes suitable for detecting the oxygen content.
152705	16-06-1980	Contraves Italiana S.P.A. Via Affile, 102-00131, Rome, Italy.	An integrated radar antenna array.
161791	09-12-1983	Dextec Metallurgical Pty. Ltd. 124 Walker Street, North Sydney, New South Wales 2060, Australia.	Electrolytic cell for recovery of metals from mineral ores of concentrates.
157298	24-05-1982	Electrolytic Zinc Company, 390 Lonadale Street, Melbourne, Victoria Australia.	An improved process for solution control in an electrolytic zinc plant circuit.
161249	28-03-1985	Elektronikus Meroko-Szolekek Gyara, Budapest XVI (Sashalom) Cziraky, U-26-32, Hungary.	Switch element resting on three points.
159035	02-06-1983	Energy Froide International S.A., 36 Avenue Krieg, 1208 Geneva, Switzerland.	A lightning protector assembly.
156735	20-04-1983	Evans Adlard & Co. Ltd., Postlip Mills, Winchcombe, Cheltenham, Gloucestershire GL 54, 5BB England.	Glass fibre paper separator for electrochemical cells and electrochemical cell comprising the same.

1	2	3	4
161126	16-05-1984	GMT Novotny GmbH, Postfach 1245, D-8264, Waldkraiburg, F.R.G.	Lead through insulators, especially for refrigerating machines.
150739	13-12-1978	Hazemeijer B.V. a Duch Company of Tuindor, Petrasaf-61, 7350 A A Hengelo, The Netherlands.	Three-phase vacuum switch or the like for interrupting an inductive load in a three-phase high voltage network.
152290	11-09-1980	Hermann Schwabe Warenstrasse 25, D-7067, Urbach, West Germany.	Process for the production of E-shaped core laminations of an impedance coil or of a transformer especially for glow-discharge lamps.
160332	22-02-1984	Hughes Aircraft Co, 200 Noth Sepulveda, El, Segundo, California 90245 U.S.A.	A dual path optical sensor system.
152528	07-08-1980	Irapa Vyvojovy No. 1, Pristovni, Praha 7, Czechoslovakia.	A method for the manufacture of fibrous platform material for the manufacture of battery separators.
154480	30-10-1981	Jeumont-Schneider 31-32, Quai De Dion Bouton, 92811 Puteaux Cedex, France.	A control circuit for a direct current motor during traction or braking.
160826	16-09-1983	—do—	Control circuit of a synchronous motor with two induced windings.
161178	11-04-1985	Kett Electric Laboratory, 8-1, Minami-Magome-1-chome-Ota-ku, Tokyo, Japan.	Electric moisture meter.
154833	24-07-1980	Klepe Elektrik GmbH, Thorner Str. 1, 4000 Dusseldorf, West Germany.	Electrical disconnecting mechanism.
160983	15-01-1983	La Telemecanique Electrique, 33 Bis Et 33 Ter Avenue Du Marechal-Joffre 92002, Nanterre, Cedex, France.	An electro-magnet equipped with a moving system including a permanent magnet and designed for monostable operation.
150795	14-02-1980	Leybold Heraeus GmbH, Bonner Strasse 504, 5000 Koln 51, Federal Republic of Germany.	An electrode clamping device for electro-remelting plants.
159475	01-03-1983	Manchester R & D Partnership, 27-31 Emerson Drive, Pepper Pike, Ohio 44124, U.S.A.	Liquid crystal display device for use with electro-optic apparatus.
146642	21-06-1977	Marston Excelsior Limited, Wobaston Road, Ford Houses, Wolverhampton WV10 6 QJ, England.	Electrode for use in a diaphragm or membrane.
150502	11-07-1979	Messwandler-Bau GmbH, Nornburger Str. 199, D-8600, Bamberg, West Germany.	Transformer winding.
157078	30-09-1982	O & K Orenstein & Koppel AG, Brunsbuttelor Damm 144-208, 1000 Berlin, F.R.G.	Power shovel.
157972	16-09-1982	Raymond Emmott McIntyre, 31 Southern Cross Drive, Cronin Island, Surfers Paradise, Queensland, Australia 4217.	Improvements in or relating to electrical connection devices.
157221	15-03-1983	Registrar, Jadavpur University, Calcutta-700032, West Bengal, India.	A process of producing a picture frame having an image imprinted thereon and an apparatus therefor.
151437	31-05-1979	Rosemount Inc. 12001, West 78th Street, Eden, Prairie State of Minnesota, U.S.A.	Two wire current transmitter with improved voltage regulator.
157918	30-05-1985	Santa Barbara Research Center, 75, Coromas Drive, Goleta, State of California, U.S.A.	A microprocessor controlled fire sensor system.

1	2	3	4
158131	21-04-1982	Santa Barbara Research Center, 75, Coromas Drive, Goleta, State of California, U.S.A.	Device for detecting the degree of contamination of a heat sensor system.
159901	02-11-1982	—do—	An improved fire sensing system.
155849	25-01-1982	Societe Nationale Industrielle Aerospatiale, 37, Boulevard de Montmorency, 75016 Paris, France.	Aerial simulator for ground illumination by means of electromagnetic pulse adapted for determination of the dielectric constant and conductivity of a selected ground.
146413	11-10-1976	Solo Industries Pty. Ltd., 15-21, Reynolds Street, Balmain, New South Wales, Australia.	Transistor ignition circuit for an internal combustion engine.
153168	26-05-1981	Union Carbide India Ltd., 1, Middleton Street, Calcutta-700071, West Bengal, India.	Improved filterproof dry cell.
161635	06-03-1984	Veb Kombinat Feinmechanische Werke Halle, DDR-402, Halle, Rudolf-Breit-Scheld-Str. 71, G.D.R.	An operating circuit for fired gas lasers and gas laser amplifiers with the several connected gas discharge sections.
161734	02-08-1984	Davidson & Co. Ltd., Sirocco Engg. Works, Bridge End, Belfast BT 54AG, Northern Ireland.	Induction sensor.
162395	18-09-1984	Minitronics Pty. Ltd., 200 Harbord Road, Brookvale, New South Wales, Commonwealth of Australia.	A switching regulator.

RENEWAL FEES PAID

146057	146068	146345	147343	147570	147696	147871
148113	148428	148489	148555	148753	148947	149330
149463	149558	149966	149993	150161	150209	150679
150970	151012	151034	151147	151303	151450	151639
151674	151948	151967	152111	152380	152690	152955
153044	153320	153548	153553	153589	153753	153783
153901	153907	154043	154045	154051	154115	154167
154474	154475	154476	154523	154685	154787	154790
155043	155136	156018	156560	156644	156698	156827
156974	157381	157716	157741	157871	157922	157978
158130	158217	158496	158809	158826	158931	159053
159075	159096	159140	159141	159182	159183	159229
159549	159570	159579	159990	159991	160120	160254
160262	160263	160307	160328	160384	160385	160515
160516	160585	160660	160840	160848	160896	161130
161131	161149	161176	161177	161186	161245	161282
161349	161357	161421	161555	161697	161729	161935
161937	162086	162088	162142	162355	162356	162358
162404	162443	162453	162455	162458	162505	162549
162610	162735	162736	162809	162892	162953	163171
163307	163330	163698	163743	163770	163834	163900
163901	163964	163968	164000	164017	164018	164048
164140	164227	164228	164287	164315	164347	164381
164453	164540	164604	164634	164635	164636	164637
164686	164742	164797	164822	164826	164858	164916
164954	164958	164987	165047	165223	165284	165330
165370	165371	165373	165386	165389	165441	165443.

RESTORATION PROCEEDINGS

Notice is hereby given that an application for restoration of Patent No. 158802 dated the 22nd September 1984 made by Jay Machinery Manufacturing Company Pvt. Ltd., on the 21st February 1989 and notified in the Gazette of India, Part III, Section 2, dated the 2nd Dec. 1989 has been allowed and the said Patent restored.

RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 152807 granted to Tractel Tirfor India Private Limited for an invention relating to "a device and process for separating solid elements from compost".

The patent ceased on the 10th March 1989 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 7th April 1990.

Any interested person may give notice of opposition to the restoration by leaving a notice on form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 21st September 1990 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र-14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कमी मी नियंत्रक, एकस्व को ऐसे विरोध की सूचना विहित प्रपत्र-15 पर दे सकते हैं। विरोध सम्बन्धी लिखित दस्तावेज, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथाविहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तरराष्ट्रीय वर्गीकरण के अनुरूप है।"

नीचे सूचीगत विनिर्देशों की सीमित संख्या में मुद्रित प्रतियाँ, भारत सरकार भुक्त द्विपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथासमय उपलब्ध होगी। प्रत्येक विनिर्देश का मूल्य 2/- रु० है (यदि भारत के बाहर भेजे जाएँ तो अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग पत्र के साथ निम्नलिखित सूची में यथाप्रदर्शित विनिर्देशों की संख्या सलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियाँ, यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रमार उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी अदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रमार 4/- रु० है) फोटो लिप्यान्तरण प्रमार का परिकलन किया जा सकता है।

CLASS : 9-A

166791

Int. Class : C 22 c 21/02.

PROCESS FOR PRODUCING ALUMINIUM-SILICON ALLOY WITH CONTENT OF SILICON OF 2-22% BY MASS.

Applicant : VSESOJUZNY NAUCHNO-ISSLEDOVATELSKY I PROEKTNY INSTITUT ALUMINIEVOI, MAGNIEVOIE ELEKTRODNOI PROMYSHLENNOSTI, OF LENINGRAD, SREDNY PROSPEKT, 86, USSR.

Inventors : (1) VIKTOR SEMENOVICH SHUSTEROV, (2) VADIM PETROVICH IVCHENKOV, (3) VLADIMIR ANATOLIEVICH GORBUNOV, (4) ANATOLY NIKOLAEVICH MALENIKHI, (5) VLADIMIR NIKOLAEVICH SENTIN, (6) ELENA LEONIDOVNA LUKINA, (7) VLADIMIR VLADIMIROVICH VOLKOV, (8) FEDOR KONSTANTINOVICH TEPLYAKOV.

Application No. 200/Cal/1987 filed March 11, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

5 Claims

A process for producing an aluminium-silicon alloy with a content of silicon of from 2 to 22% by mass, comprising separation of a crushed crystalline silicon into fractions of 20-50 mm size and fraction of 0.3-1.0 mm, size, dissolution of crystalline silicon of the fraction of 20-50 mm size in liquid aluminium at a temperature within the range of from 780 to 820° C and agitation in a reverberatory furnace with the formation of an aluminium-silicon melt characterized in that, simultaneously with dissolution of crystalline silicon of the fraction of 20-50mm size in liquid aluminium, crystalline silicon of the fraction 0.3-1.0 mm size is introduced below the melt level by means of an external medium such as herein described, the content of crystalline silicon of fraction of 0.3-1.0 mm size in the jet of an inert gas is 3-10% by weight of the total charge of the crystalline silicon.

Compl. Specn. 22 Pages

Drg. Nil

CLASS : 40-F

166792

Int. Class : C 12 p 1/00.

A METHOD FOR PRODUCING DISPOSABLE PURIFICATION OF SEWAGE FROM DIETHANOLAMINE.

Applicant : VOLGO-URALSKY NAUCHNO-ISSLEDOVATELSKY I PROEKTNY INSTITUT PO DOBYCHE I PERERABOTKE SEROVODORODSODERZHASCHIKH 'GAZOV (VOLGOURALNIPIGAZ), OF ORENGURG, ULITSA PUSHKINSKAYA, 20, USSR.

Inventors : (1) MARK BENYAMINOVICH TS INBERG, (2) TATYANA ALEXANDROVNA SURGINA, (3) PETR ILICH GVOZDYAK

Application No. 214/Cal/1987 filed March 17, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

2 Claims

A method for producing disposable sewage by purification of sewage from diethanolamine obtained as a waste stream after absorbing sulphurous compounds in the purification of natural gas which comprises the step of subjecting the sewage waste to treatment using a mixture of micro-organism being represented by the biocenosis of micro-organisms, genera *Pseudomonas* and *Bacillus* and selected by natural selection while cultivating activated sludge on nutrient media containing high concentrations of diethanolamine, said process being carried out in the presence of sources of phosphorus and known microelements for the purification of said sewage from diethanolamine at a pH of 7.2 to 8.8, the biocenosis of said mixture of micro-organisms being taken in 1 : 1000-5000 ratio to the sewage volume.

Compl. Specn. 11 Pages

Drg. Nil.

CLASS : 40-B

166793

Int. Class : B 01 j 31/00, 37/00.

AN IMPROVED PROCESS FOR PREPARING A COORDINATION CATALYST FOR USE IN THE PREPARATION OF HIGH MOLECULAR WEIGHT POLYMERS OF α -OLEFINS.

Applicant : DU PONT CANADA INC. OF BOX 2200 STREETSVILLE, MISSISSAUGA, ONTARIO, CANADA L5M 2H3, CANADA.

Inventors : (1) MICHAEL ANDREW HAMILTON, (2) DAVID ALAN HARBOURNE, (3) CHARLES GEORGE RUSSEL, (4) VACLAV GEORGE ZBORIL, (5) ROLF MULHAUPT.

Application No. 223/Cal/1987 filed March 20, 1987.

Convention dated 5th July, 1983; No. 83/018206; U.K.

Divisional of Application No. 423/Cal/84, Anti-dated to 18th June, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

9 Claims

An improved process for preparing a coordination catalyst for use in the preparation of high molecular weight polymers of α -olefins, which comprises combining a first component with a second component said first component being prepared by a method consisting of (i) admixing a solution of an organoaluminum compound in an inert hydrocarbon solvent with a solution of titanium tetrahalide and vanadium oxytrihalide in inert hydrocarbon solvent at a temperature of less than 30°C and heating the resultant admixture to a temperature of 150-300°C for a period of from 5 seconds to 60 minutes or (ii) admixing a solution of an organoaluminum compound in inert hydrocarbon solvent with a solution of titanium tetrahalide in inert hydrocarbon solvent at a temperature of less than 30°C, heating the resultant admixture to a temperature of 150-300°C for a period of

from 5 seconds to 60 minutes and admixing vanadium oxytrihalide with the admixture so obtained, the ratio of titanium to vanadium on an atomic basis being 0.5 : 1 to 30 : 1, said organoaluminum compound being of the formula AlR_nX_{3-n} and being admixed with the titanium and vanadium compounds to that the atomic ratio of aluminum in the first component to titanium plus vanadium is in the range 0.2—2.0 where R is alkyl, cycloalkyl, aryl or alkyl-substituted aryl and has 1-20 carbon atoms; n = 1, 1.5, 2 or 3 and X is halogen, the improvement wherein the second component is a solution of an alkylsiloxalane in inert hydrocarbon solvent.

Compl. Specn. 25 Pages.

Drg. Nil.

CLASS : 188

166794

Int. Class : C 23c 10/00.

METHOD OF OBTAINING A COATING ON ELONGATED WORKPIECES.

Applicant : NAUCHNO-ISSLEDOVATELSKY INSTITUT TEKHNologii AVTOMOBILNOI PROMYSHLENNOSTI (NIITAVTOPROM), OF PROSPEKT IMENI JU.V. ANDROPOVA 22/30, MOSCOW, USSR.

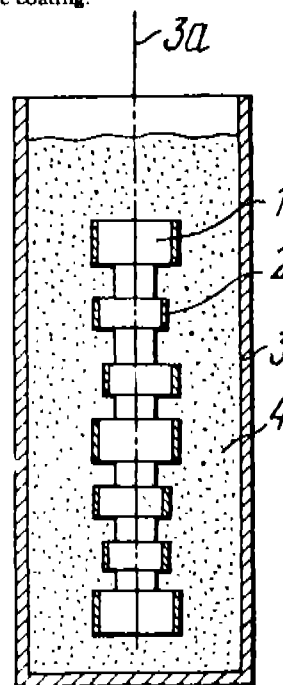
Inventors : (1) VALENTIN PETROVICH NECHAEV, (2) VALERY IVANOVICH AKHMATOV, (3) GENNADY IVANOVICH BOBRYAKOV, (4) BORIS ALEXEEVICH PEPELIN.

Application No. 450/Cal/1987 filed June 10, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

6 Claims

A method of obtaining a coating on elongated workpieces wherein a material of the coating is applied to the surface of the workpiece, this coating material being heated to fusion and then cooled, whereas prior to fusion of the coating the workpiece is placed in a powder refractory material which is compacted to retain the workpiece in place and the coating is fused, after which the workpiece is held at the fusion temperature of the coating to the formation of an intermediate diffusion zone between the material the coating and workpiece, the cooling of the refractory powder, material being effected to crystallization of the material of the coating.



Compl. Specn. 18 Pages.

Drg. Nil.

including means for setting each of said coil springs in an operative condition.

Int. Class : B 21 b 21/00, 37/00.

INERTIA FORCE BALANCING APPARATUS.

Applicant : SUMITOMO HEAVY INDUSTRIES, LTD., OF 2-1,
2-CHOME, OIITEMACHI, CHYODA-KU, TOKYO, JAPAN.

Inventor: MUNEHARU TAKAHASHI.

Application No. 577/Cal/87 filed July 28, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

3 Claims

An inertia force balancing apparatus for a machine such as Pilger rolling mill having a heavy object such as Pilger mill rolls supported for horizontal reciprocating movement and a drive device for imparting reciprocating movement to said heavy object by converting rotational motion provided by a prime mover into reciprocating motion, said apparatus comprising :

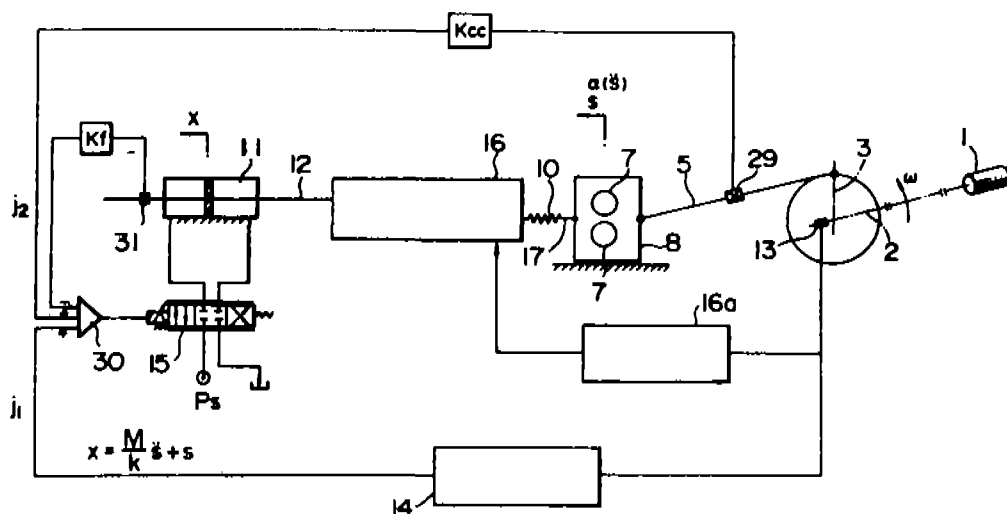
spring means comprising a plurality of coil springs arranged in parallel and supported on a common member. said spring means

means connecting said common support to said heavy object to enable said spring means to balance the inertia force of the reciprocating movement of said heavy object.

means for detecting the rotational speed of said drive device and for emitting a signal indicative of said rotational speed,

a control device for controlling said means for setting each of said coil springs in an operative condition in response to said signal indicative of said rotational speed, and

means for altering the position of said spring means relative to said heavy object comprising a hydraulic cylinder and a piston connected to said spring means and a servo valve responsive to said rotational speed of said drive device for supplying fluid pressure to said hydraulic cylinder to position said spring means relative to said heavy object, whereby said control device is operative to change the combination of said coil springs set in operation and thereby alter the spring constant of said spring means in response to the rotational speed of said drive device and said means for altering the position of said spring means is operative to control the position of said spring means relative to said heavy object in response to the rotational speed of said drive device.

**Compl. Specn. 24 Pages**

Drugs, 6 Sheets.

9 Claims

Int. Class : A 61 k 37/00;
C 07 k 15/06.

PROCESS FOR THE PREPARATION OF NEURONOTROPHIC FACTOR

**Applicant : FIDIA, S.P.A., OF VIA PONTE DELLA FABBRICA,
3/A, 35031 ABANO TERME, ITALY.**

Inventor : FRANCESCO DELLA VALLE.

Application No. 608/Cal/1987 filed August 04, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

A process for the preparation of a neuronotrophic factor which is a basic protein having a molecular weight of about 14,400 daltons characterized by the steps of:

- (a) homogenization of mammalian brain tissue;
- (b) acid precipitation of the homogenate thus produced at the pH not exceeding pH 5;
- (c) dialysis of the resulting supernatant with a dialysis membrane having a molecular weight restriction of between 5 and 10 kilodalton; and
- (d) chromatographic fractionation on a molecular sieve with a diluted buffered eluent at a concentration of from 10mM to 30mM., of the dialyzed supernatant to separate the

supernatant components according to their molecular weight, the neurotrophically active fractions thus obtained being:

- (e) optionally subjected to purification by cation exchange chromatography with a gradient of ammonium acetate buffer.

Compl. Specn. 43 Pages.

Drgs. 5 Sheets.

CLASS : 129-Q

166797

Int. Class : B 23 K 23/80.

IMPROVED THERMIT PROCESS OF WELDING RAIL SECTIONS.

Applicant & Inventor : DIGAMBAR MADHAV CHAUDHARY, OF 8 CAMAC STREET, FLOOR 9, SUITE 10, CALCUTTA-700017, WEST BENGAL, INDIA.

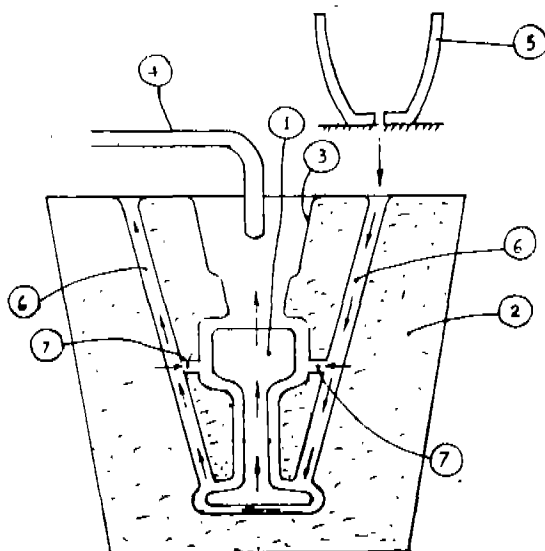
Application No. 642/Cal/87 filed August 14, 1987.

Complete Specification Left on 8th September, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

4 Claims

An improved thermit process of welding rail sections, wherein the rail ends, to be welded, are surrounded by a pre-cast mould, characterised in that the said mould is so shaped and made that a passage is formed in the said mould on top of the rail head for pre-heating the rail head, and pourer(s)-cum-riser(s) is (are) formed in the said mould, which extend(s) upto the bottom of the rail sections, for pouring molten thermit steel through the bottom of the rail sections.



Compl. Specn. 10 pages.

Drg. 1 sheet

Provl. specn. 6 pages

Drg. Nil.

CLASS : 33-A

166798

Int. Class : A 44 b 19/00.

A SLIDING GATE AT THE OUTLET OF A VESSEL CONTAINING A METALLIC MELT.

4—G-157GI/90

Applicant : STOPINC AKTIENGESellschaft, OF ZUGERSTR. 76A, CH-6340 BAAR, SWITZERLAND.

Inventor : ROBERT FRICKER.

Application No. 652/Cal/1987 filed August 18, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

10 Claims

A sliding gate at the outlet of a vessel containing a metallic melt, comprising a gate housing, a base plate stationarily arranged therein and a slide plate which may be sealingly pressed by means of spring elements against said base plate, the slide plate being held in a slide unit which is slidable on slide tracks of the gate housing to an open or closed position and can be swung out when the spring elements are relaxed, characterized in that the slide unit (30, 70, 80) may be adopted to be displaced to a position (A) disposed beyond the open position and closed position, where the slide unit (30, 70, 80) is pivotally supported in bearing (29, 86, 79) in the gate housing and the slide tracks (21a, 71a) are lower relative to the slide tracks (21a, 71a) of the remaining track length by a height(h) which relaxes the spring elements (50, 90).

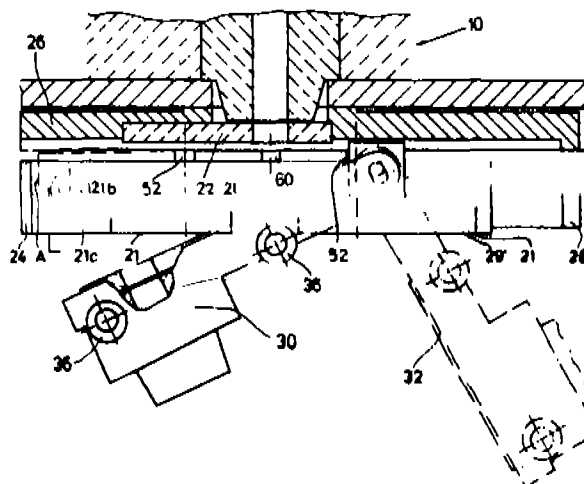


Fig. 3

Compl. specn. 13 pages

Drgs. 3 sheets.

CLASS : 172-Da.

166799

Int. Class : D 02 g 1/00; 3/00 and
D 01 h 7/00.

APPARATUS FOR PRODUCING SELF-TWISTED FIBROUS PRODUCT.

Applicant : UZBEXKOE PROIZVODSTVENNOE OBIEDINENIE TEXTILNOGO MASHINOSTROENIA, OF TASHKENT, ULITSA SH. RUSTAVELI, 53B, USSR.

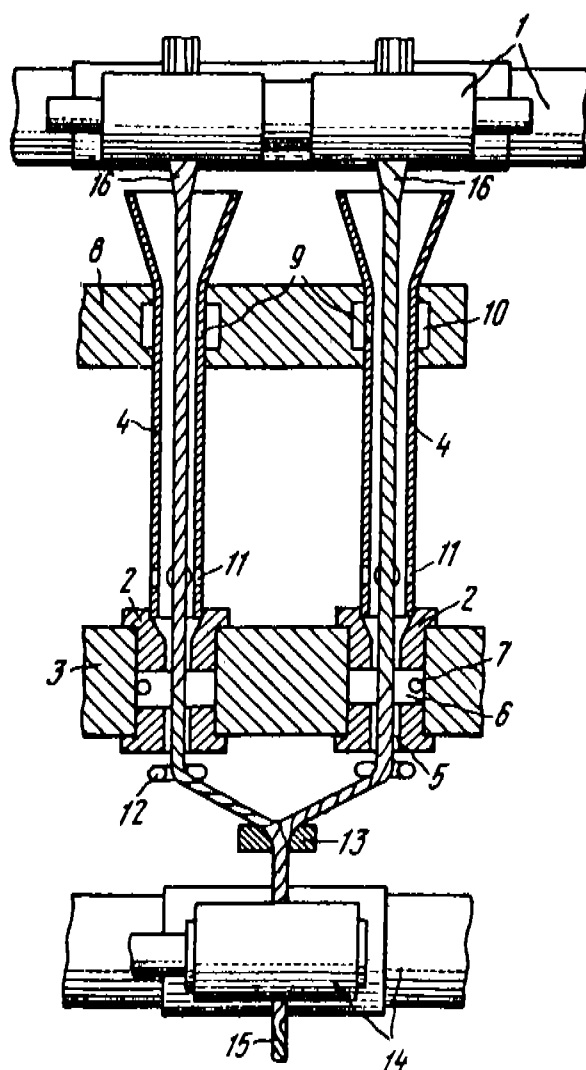
Inventors : (1) VLADIMIR VITALIEVICH SABATELLI, (2) JURY BORISOVICH MIROSHNICHENKO.

Application No. 678/Cal/1987 filed August 28, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

1 Claim

A apparatus for producing self-twisted fibrous product, comprising: a delivery couple; swirl chambers; ejector tubes arranged intermediate said delivery couple and said swirl chambers, each tube having an opening made through its wall, inclined with respect of the longitudinal axis of said tube for feeding an air stream thereinto; each said ejector tube having an end portion facing the respective one of said swirl chambers; radial openings made through said end portions of said ejector tubes, communicating with ambient atmosphere; said ejector tubes being so mounted that their respective bottom end faces closely adjoin said respective swirl chambers.



Compl. specn. 9 pages.

Drg. 1 sheet.

CLASS : 158-C12.

166800

Int. Class : B 61 g 3/06.

IMPROVED KNUCKLE FOR A RAILWAY COUPLER.

Applicant : MCCONWAY & TORLEY CORPORATION,
OF 109, 48TH STREET, PITTSBURGH, PENNSYLVANIA 15201,
U.S.A.

Inventors : WILLIAM OWENS ELLIOTT.

Application No. 811/Cal/1987 filed October 19, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents
Rules, 1972), Patent Office, Calcutta.

7 Claims

In a knuckle for railway coupler of the type having a hub portion provided with a pivot pin hole and bounded on one side by a throat portion contiguous with a nose portion, the nose portion being adapted to be engaged by the nose portion of the knuckle of a cooperating coupler, and wherein said pivot pin hole is formed in a casting by upper and lower circular openings separated by an intermediate cavity; the improvement in said knuckle comprising a knuckle pin support surface in said intermediate cavity, said support surface forming a continuation of said upper and lower circular openings for supporting a knuckle pin against bending whereby bending stresses on the knuckle pin imposed by the nose portion of the knuckle of a cooperating coupler are materially reduced.

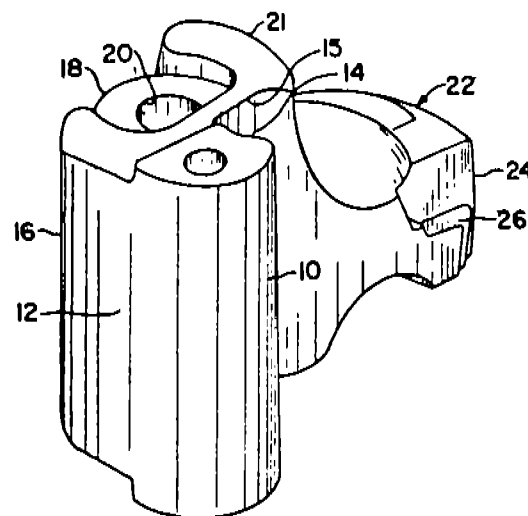


Fig. 1

Compl. specn. 11 pages

Drgs. 3 sheets.

Ind. Cl. : 170 B + D XLIII (4)

166801

Int. Cl. : C 11 D—13/00

PROCESS FOR PREPARING TRANSPARENT SOAP COMPOSITIONS.

Applicant : HINDUSTAN LEVER LTD., HINDUSTAN
LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY-
400020, MAHARASHTRA, INDIA.

Inventors : JOHANNES HELMOND, BERNARDUS
HOSEPHUS BOER, JOHANNES LAVRENS CORNEUS
DIJKERS, JOHANNES JOSEPHUS VREESWIJK.

Application No. 212/Bom/1987 filed on 3rd July, 1987.

Application No. 212/Bom/1987 Post date to 3rd November, 1987.
Convention priority date 3rd November, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents
Rules, 1972), Patent Office, Bombay Branch.

9 Claims

A process for preparing a transparent soap composition comprising saponifying partly or completely a fatty acid mixture of C_{16} — C_{22} and C_{16} — C_{18} fatty acids and adding to the reaction mass a thermostable polyol; optionally free C_{16} — C_{22} fatty acids when the saponification is complete or when the unsaponified free fatty acid is inadequate; water; NaCl, and other conventional components such as perfume, dye, stabilizer; drying the mixture to a water content of 12—20% and processing the material obtained in a manner *per se* with standard soap processing apparatus to provide transparent soap tablets, the components being taken in amounts suitable to provide the following composition :

A : 55—79.5% (ww) alkali metal or tertiary amine soap of a fatty acid mixture consisting of 90—70% (ww) C_{16} — C_{22} fatty acids and 10—30% (ww) C_{16} — C_{18} fatty acids;

B : 7—20% (ww) of a thermostable polyol;

C : 0.5—7.5% (ww) free C_{16} — C_{22} fatty acids;

D : 12—20% (ww) water;

E : less than 0.2% (ww) NaCl;

F : Up to 2% of the convention components.

Compl. specn. 10 pages

Drg. Nil.

Ind. Cl. : 32 F 3 D IX (1)
Int. Cl. : C 07 D—307/32

166802

METHOD OF PRODUCING ACTIVE GAMMA- HYDROXY-
YDECAHOIC ACID AND OPTIONALLY LACTONISED PRO-
DUCT THEREOF.

Applicant : HINDUSTAN LEVER LIMITED, OF HINDUS-
TAN LEVER HOUSE-165/166, BACKBAY RECLAMATION,
BOMBAY-400020, MAHARASHTRA, INDIA, A COMPANY
INCORPORATED UNDER THE INDIAN COMPANIES ACT,
1913.

Inventors : (1) PETER SAMUEL JAMES CHEETHAM, (2)
KATHERINE ANN MAYME, (3) JOHNNES FRANCISCUS
MARIA DE KOOLJ.

Application No. 240/Bom/1987 filed on 27th July, 1987. Conven-
tion priority date 28th July, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents
Rules, 1972), Patent Office, Bombay Branch.

10 Claims

A method of producing optically active gamma-hydroxy-
decanoic acid suitable for conversion to optically active gamma-
decalactone wherein a microorganism selected from strains of the
group comprising *Sporobolomyces odorus*, *Rhodotorula glutinis* and
mixtures thereof is cultured in a nutrient medium containing a
ricinoleic acid source under aerobic conditions at a pH from 3 to 9 and
a temperature from 15° C to 35° C for a sufficient period to produce
optically active gamma-hydroxydecanoic acid and optionally lac-
tonising the acid in a manner known *per se* and recovering the gam-
madecalactone obtained.

Compl. specn. 14 pages

Drg. Nil.

Ind. Cl. : 98 G VII (2) 177 A + D XLV (5)
Int. Cl. : F 28 C 3/16, F 28 D 13/00.

166803

AN IMPROVED FLUIDIZED BED HEAT EXCHANGER.

Applicant : THERMAX PVT. LTD. (AN INDIAN COMPANY)
AT CHINCHWAD, PUNE-411 019, MAHARASHTRA STATE,
INDIA.

Inventor : JOSHI NARENDRA DAFTATRAYA.

Application No. 248/Bom/1987 filed on 3rd August 1987.

Appropriate office for opposition proceedings (Rule 4, Patents
Rules, 1972), Patent Office Branch, Bombay-13.

6 Claims

An improved fluidized bed heat exchanger comprising an
enclosed plenum chamber; a distributor plate, such as, a perforated
plate or a nozzle plate above the said plenum chamber for depositing
thereon the inert medium, such as, sand, characterized in that at least
one input duct to the said plenum chamber for connecting to the out-
put port of the diesel engine exhaust; and closed fin pitch tubes with
closed pitch fins on the said chamber.

Compl. specn. 8 pages

Drg. 1 sheet

Ind. Cl. : 170 B [XLIII (4)]
Int. Cl. : C 11 D 3/02, 11/04.

166804

PROCESS FOR MANUFACTURING DETERGENT BARS
HAVING IMPROVED HARDNESS.

Applicants : HINDUSTAN LEVER LTD: 165/166, BACKBAY
RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : (1) THOMAS McGEE, (2) PETER JAMES
POWERS.

Application No. 303/Bom/1987 filed Sept. 29, 1987. U.K. Conven-
tion Priority date Sept. 30, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents
Rules 1972), Patent Office Branch, Bombay.

12 Claims

A process for manufacturing detergent bars containing from 7% to
45% by weight of a detergent active material comprising the steps
of:

- (i) neutralising with alkaline material the appropriate acid
precursor for the detergent anionic active material, the
neutralisation occurring in the presence of 0.25 to 50% by
weight of the final bar composition of a desiccant/
adsorbent silica containing material selected from the
group comprising sheet silicates with a trioctahedral or
talc-like structure, crystalline aluminosilicates, amor-
phous silicas, silica gels and mixtures thereof; and

- (ii) forming into bars in a conventional manner.

Compl. Specn. 14 pages.

Drg. Nil.

Ind. Cl.: B 65 G 67/06.

166805

A POWDER GRAVITY FILLING DEVICE.

Applicants: CLAUDIUS PETERS A.G. (A WEST GERMAN COMPANY) OF KAPSTADTRING 1, D-2000, HAMBURG, 60, WEST GERMANY.

Inventors: KRAUSS WERNER & MATTHIES KARL-HEINZ.

Application No. 272/Bom/1987 filed on 26 August, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents, Rules 1972), Patent Office Branch, Bombay-13.

3 Claims

A powder gravity filling device for connecting a stationary tubular connector of a stationary container to an upwardly extending opening of a tank mounted on a vehicle, comprising:—

a pair of rails fastened on a pair of firm structures;

a first set of wheels journaled on a first carriage and disposed on the said pair of rails;

a second set of wheels journaled on a second carriage and disposed on a pair of rails, rigidly connected to the said first carriage with the help of a set of vertical beams;

a funnel-like structure having side walls inclined in a direction towards its discharge end connected to a vertical pipe firmly provided with the said second carriage;

a horizontal cover mounted about the opening of said stationary tubular member and substantially flush therewith;

a flexible wiping seal mounted on the top rim of the said funnel-like structure and dimensioned in an upward vertical direction whereby it is wiping abutment with the underside of the said horizontal cover; and

the said funnel-like structure terminating downwardly in a flexible conduit to transport therethrough downwardly the powder into the opening of the said tank mounted on a vehicle.

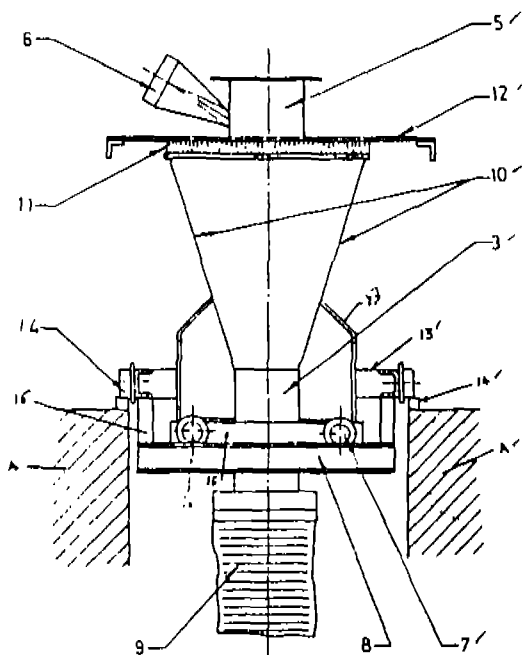


Fig. 1

Compl. Specn. 11 Pages

Drg. 2 Sheets.

Ind. Cl.: 170 B [XI.III (4)]

166806

Int. Cl.: C 11 D 3/02, 11/04

PROCESS FOR MANUFACTURING DETERGENT BARS WITH IMPROVED HARDNESS.

Applicant: HINDUSTAN LEVER LIMITED, HINDUSTAN LEVER HOUSE, 165/166 BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors: (1) IAN ROGERS KENYON, (2) PETER JAMES POWERS AND (3) PETER JOHN RUSSELL.

Application No.: 304/Bom/1987 filed Sept. 29, 1987. U.K. Convention Priority date Sept 30, 1986.

Appropriate Office for Opposition Proceedings (Rules 4, Patents Rules, 1972), Patent Office Branch, Bombay.

11 Claims

A process for manufacturing detergent bars containing from 7% to 45% by weight of a detergent active material comprising the steps of:

(i) neutralising with alkaline material the appropriate acid precursor for the detergent anionic active material, the neutralisation occurring in the presence of desiccant/adsorbent material selected from the group comprising phosphorus pentoxide, associated oxy salts thereof, oleum, sulphuric acid, boric acid, metaborate salts, anhydrous sodium sulphate, calcium oxide, magnesium sulphate, alumina and mixtures thereof;

(ii) forming into bars in a conventional manner.

Compl. Specn. 12 Pages

Drg. Nil.

Ind. Cl.: 176A+I; 37A, 6A₂ + 6B₃

166807

Int. Cl.: B01D-45/06; 53/24; F23J-3/04; 3/94; 3/06; 3/00.

A FLY ASH ARRESTER FOR BOILERS.

Applicant & Inventor: SATISH DAMODAR TANKSALE, 305, SHRADDHA CHAMBERS, NEAR DANDEKAR BRIDGE, PUNE-411 030, MAHARASHTRA, INDIA.

Application No. 319/Bom/1987 filed on Oct. 12, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay.

1 Claim

Fly ash arrester for boilers comprising a fan assembly consisting of fan casing and fan impeller eccentrically mounted therein to produce a forcible induced draft by the force of the flue gases stream coming out from the boiler and entering at an inlet of the said fan assembly leading to a stack, by-pass duct angularly provided at the upper portion of the duct connected to the outlet of the said fan assembly, a multicyclone chamber being provided at the end of the said by-pass duct which is also connected at its top with a duct for passing therethrough a partial stream of flue gases from the boiler outlet, arrangement being such that due to forcible induced draft the fly ash and unburnt solid particles are thrown towards the periphery of the

fan assembly which fluid then exit through the said by-pass duct to the multi-cyclone chamber to get washed out therethrough.

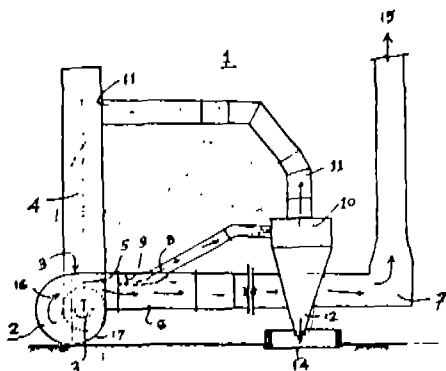


Fig. 1

Compl. specn. 5 pages

Drq. 2 sheets.

Int. Cl.: 32F(b) [IX (1)] + 55E2 + E4 [XIX(1)]

166808

Int. Cl.: A61K-31/19, 31/21, 31/71; C12P-7/44, 7/62.

A PROCESS FOR THE PRODUCTION OF A NEW ANTIFUNGAL ANTIBIOTIC NAMED ISOBONGKREKIC ACID FROM AN EUBACTERIUM (CULTURE NO. HOECHST INDIA LIMITED Y-84, 0700) OR ITS VARIANTS OR MUTANTS.

Applicant: HOECHST INDIA LIMITED, HOECHST HOUSE, NARIMAN POINT, 193 BACKBAY RECLAMATION, BOMBAY-400 021, MAHARASHTRA, INDIA.

Inventors: (1) DR. KIRITY ROY, (2) DR. SUGATA CHATTERJEE, (3) DR. ERRA KOTESWARA SATYA VIJAYAKUMAR, (4) DR. BIMAL NARESH GANGULI AND (5) DR. RICHARD HELMUT RUPP.

Application No. 327/Bom/1987 filed on 23-10-1987 Complete after provisional left on 16-11-1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay.

5 Claims

A process for the production of a new antifungal antibiotic named Isobongkreki acid of the formula shown in Fig. 1

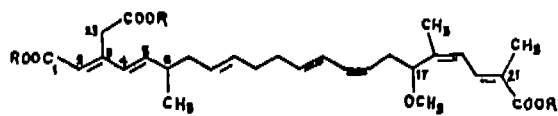


Fig. 1

in which R is H or CH₃, from an eubacterium (Culture No. Hoechst India Limited Y-84, 0700) or its variants or mutants, said process comprises cultivating said strain or its variants or mutants by fermentation under aerobic conditions in a nutrient medium such as herein described at a pH between 6.0 to 8.0 and at 24°C to 30°C and isolating and purifying the said antibiotic from the culture broth in a known manner such as herein described.

Prov. specn. 18 pages

Drqs. 10 sheets.

Compl. specn. 19 pages

Drq. Nil.

Int. Cl.: A 61 C—5/00, 5/02

166809

FLEXIBLE, U SHAPED CLIP BANDAGE FOR MEDICATION OF HUMAN TEETH AND GUMS.

Applicants: PRIYAL KHANDERAO KULKARNI AND VIJAY PRIYAL KULKARNI, MOHAR, 64/17, ERANDAVANE, PUNE-411 004, MAHARASHTRA STATE, INDIA. BOTH INDIAN CITIZENS.

Inventors: As above

Application No. 344/Bom/1987 filed on 16-11-1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay.

2 Claims

A flexible, U shaped clip bandage for medication of human teeth and gums, the clip bandage comprising two U shaped outer and inner layers made from soft plastic, rubber or textile material and provided with a number of similarly U shaped springs in between the said outer and inner layers to give the clip bandage necessary closing force to hold it on teeth and gums to be medicated, the said springs made from thin stainless steel wire or plastic material, the inside of the U shaped clip bandage lined with porous material such as cotton or plastic foam on which medicine in liquid, jelly or powder form is applied when the U shaped clip bandage is placed on teeth and gums so as to retain medicine in close contact for effective medication.

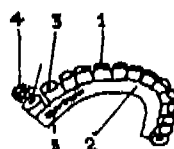


Fig. 1

Compl. Specn. 8 Pages.

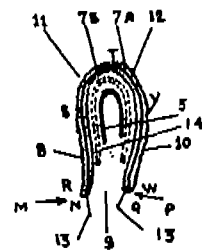


Fig. 3

Drq. 1 Sheet.

Int. Cl.: F 16 K 33/00

166810

WATER-PREVENTING FUEL-CUT-OFF-DEVICE.

Applicant & Inventor: NIRMAL PANNALAL C/O PANNALAL METAL INDUSTRIES BADORA, BETUL, MADHYA PRADESH, INDIA-460 002.

Application No. 349/Bom/89 filed on Nov., 26, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay.

6 Claims

A water preventing fuel cut off device comprising a funnel shaped upper end opening into a float chamber, said float chamber having a ballasted float therein, said ballasted float adapted to buoy in water and sink in lighter liquids, floating of said ballasted float effecting closure of a shut-off valve stopping flow of liquid through said float chamber into outlet thereof.

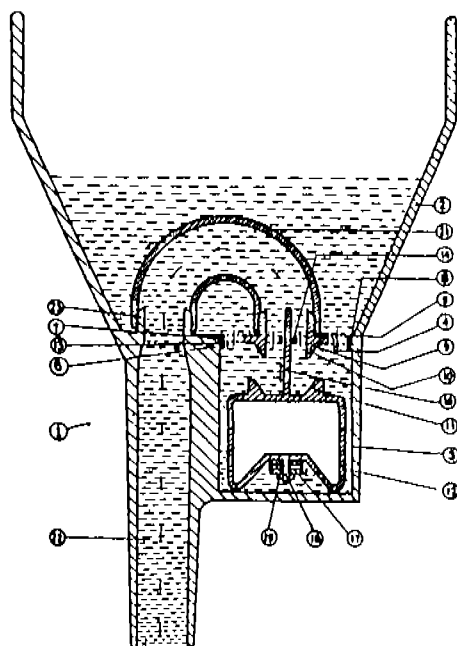


Fig. 1

Compl. specn. 6 pages

Drgs. 4 sheets.

Ind. Class : 27-1 [GROUP XXVI(1)]
 Int. Cl.⁴ : E 04 C 5/08

166811

PREFABRICATED MODULES FOR ERECTING BUILDINGS AND A METHOD FOR MAKING THE SAME.

Applicant: SISMO INTERNATIONAL, A COMPANY ORGANISED UNDER THE LAWS OF BELGIUM, OF DRAPSTRAAT, 1, 9288 LAARNE-KALKEN, BELGIUM.

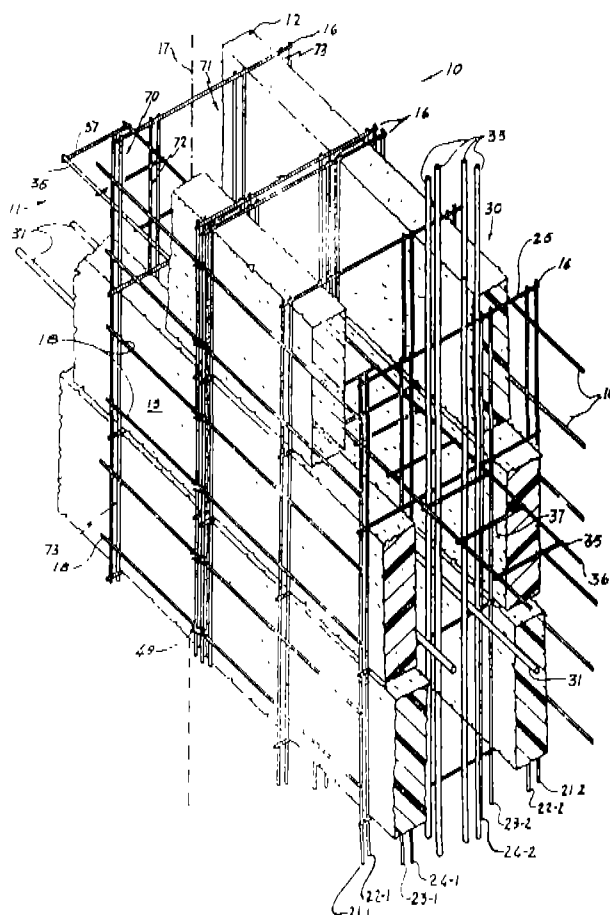
Inventors : (1) DE SCHUTTER ANDRE, (2) CASALATINA SILVANO.

Application No. 867/Mas/85 filed October 29, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

24 Claims

Prefabricated modules to be used for erecting buildings, comprising flat elements (12) from light materials such as expanded polystyrene, insulating material on a vegetable or mineral basis, a plurality of nettings (16, 27) from welded steel wires, extending along a length-wise direction and welded to a series cross wise wires (18), and said nettings comprise length-wise wires (22-1, 22-2, 23-1, 23-2) and spacing or brace wires (25) welded to said length-wise wires, thereby forming empty bearing or supporting spaces for the said flat elements (12), in which said lengthwise wires form close wire pairs (21-1, 22-1, 23-1, 24-1, 24-2, 23-2, 22-2, 21-2) welded to said spacing wires, which alternately define the bearing locations for the flat elements (12) and separation zones adjoining said spaces.



Compl. Specn. 26 Pages.

Drgs. 13 Sheets.

Int. Cl.⁴ : B 65H 21/00
 Ind. Class : 48-Aa—[GROUP—LVIII(3)].

166812

A SPLICE CASE FOR RECEIVING A PLURALITY OF LINEAR BODIES TO BE SPICED AND FOR PROTECTING THE SPLICE FROM THE ENVIRONMENT.

Applicant: PREFORMED LINE PRODUCTS COMPANY, OF 660 BETA DRIVE, CLEVELAND, OHIO 44143, U.S.A., A CORPORATION OF THE STATE OF OHIO, U.S.A.

Inventors : (1) ERWIN H. GOETTER, (2) RALPH B. SITER.

Application No. 949/Mas/85 filed November 25, 1985.

Divisional to Patent No. 157558 (1513/Cal/82) (Ante-dated to December 31, 1982).

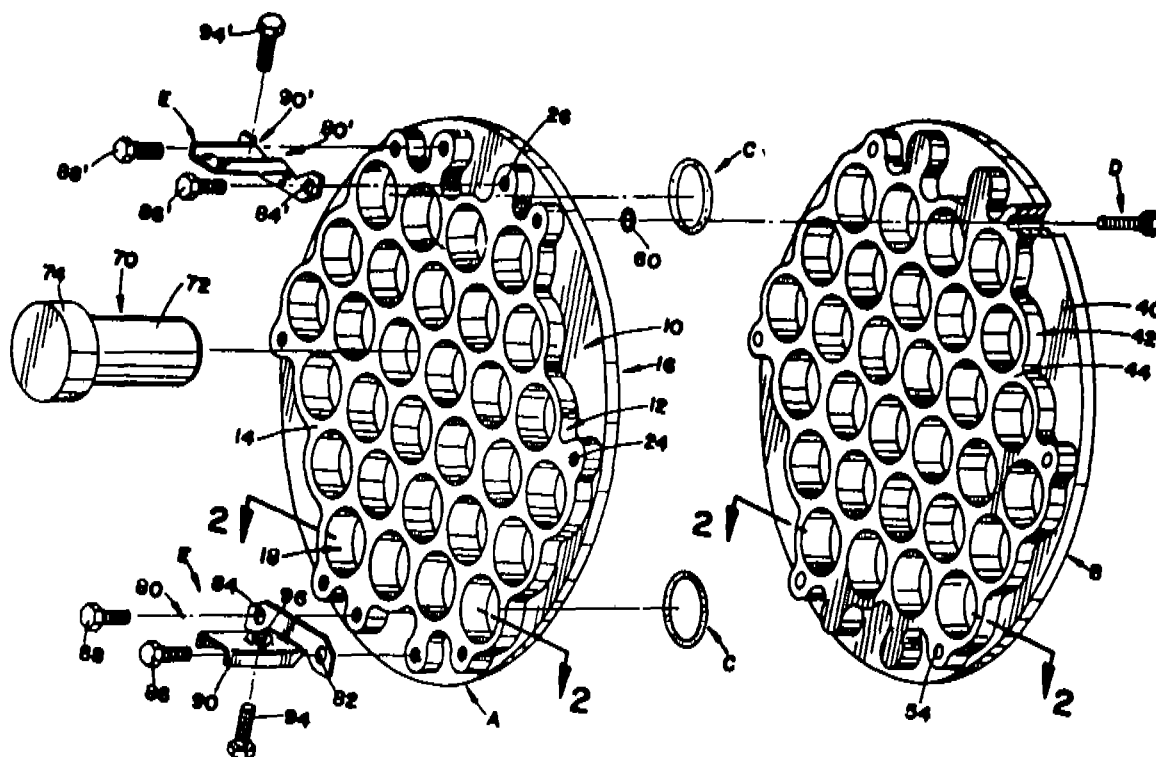
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

10 Claims

A splice case for receiving a plurality of linear bodies to be spliced and for protecting the splice from the environment, said splice case comprising :

a first end closure assembly comprising an inner and plate having an inner face, an outer face and a plurality of apertures extending axially therethrough; an outer end plate having an inner face disposed contiguous with the inner end plate outer face, an outer face and a plurality of apertures extending axially therethrough in registry with the inner end plate apertures; a plurality of annular recesses disposed in at least one of the inner end plate outer face and the outer end plate inner face; gasket means at least partially received in the recesses; and, means for drawing the inner and outer end plates axially toward each other such that the gasket means is compressed longitudinally and expanded radially into the inner and outer end plate apertures, whereby said gasket means is adapted to be placed in an environmental sealing relationship with at least one first linear body extending through a selected pair of registered apertures in said

inner and outer end plates; a second end closure assembly having an inner face, an outer face, and at least one aperture extending axially thereof between said inner and outer faces adapted to receive at least one second linear body axially therethrough; at least a pair of elongated members extending axially of and operatively connected with the first and second end closure assemblies for retaining said inner end plate inner face and said second end closure assembly inner face in a generally predetermined laterally spaced apart relationship; and cover members closely received circumferentially of said first and second end closure assemblies for defining an enclosed splice chamber therebetween, said cover members being releasably disposed in an environmentally sealing relationship with each other and with said end closure assemblies.



Compl. Specn. 20 Pages.

Drgs. 3 Sheets.

Ind. Cl. : 32 C [Group-IX (1)]

166813

5 Claims. No drawing

Int. Cl.⁴ : C 07 C 1/06

A PROCESS FOR THE PREPARATION OF HEAVY LIQUID HYDROCARBONS BOILING ABOVE 360° C BY CATALYTIC REDUCTION OF CARBON MONOXIDE WITH HYDROGEN.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. OF CAREL VAN BYLANDT LAAN 30, 2596 HR THE HAGUE, THE NETHERLANDS, A COMPANY ORGANIZED UNDER THE LAWS OF THE NETHERLANDS.

Inventors : (1) DIRK BODE, (2) SWAN TIONG SIE

Application No. : 1034/Maa/1985 filed December 27, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

A process for the preparation of heavy liquid hydrocarbons boiling above 360° C by catalytic reduction of carbon dioxide with hydrogen which comprises contacting a mixture of carbon monoxide and hydrogen at a temperature of from 125 to 350° C and pressure of 0.5 to 10 MPa in the presence of a catalyst bed having an external surface area S_a (in cm^2/ml) said catalyst consisting of 3 to 60 parts by weight of cobalt and 0.1—100 parts by weight of at least one other metal chosen from zirconium, titanium, chromium and ruthenium per 100 parts by weight of silica, alumina or silica alumina characterized in that a liquid obtained in the hydrocarbon synthesis and/or the hydrocracking treatment if the hydrocarbon synthesis is followed by a hydrocracking treatment for the preparation of middle distillates, which boils at 100° C is passed through the said catalyst bed in a downward direction together with the carbon dioxide and hydrogen at such a superficial liquid flow velocity V_L (in cm/s) at the $V_L \times S_a > 1$ (in S^{-1}) and recovering the said heavy liquid hydrocarbons from the resultant product in a known manner.

Compl. Specn. 14 Pages.

Ind. Cl.: 90-I [GROUP-XXXVI]
Int. Cl.4: C 03 B 8/04

166814

10 Claims

METHOD FOR MAKING SODIUM-CONTAINING GLASS

Applicant: CORNING GLASS WORKS, A CORPORATION ORGANIZED UNDER THE LAWS OF NEW YORK, UNITED STATES OF AMERICA, OF SULLIVAN PARK, FR-212, CORNING, NEW YORK 14831, UNITED STATES OF AMERICA.

Inventors: (1) PETER LAWRENCE BOCKO, (2) DAVID ALLEN THOMPSON (3) WILLIAM JOSEPH WEIN

Application No.: 14/Maa/86 filed January 10, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

6 Claims

A method of making a sodium containing glass which comprises the steps of:

- (a) preparing a vapor reaction mixture containing vapors of at least two vaporizable constituents which react together in a vapor phase to form a composition for a vapor deposited glass wherein one of the vaporizable constituent is a sodium fluoroalkoxide compound of the formula Na-O-R wherein O is oxygen and R is a fluorocarbon or fluorohydro-carbon group of from 3-5 carbon atoms; and the other constituents is a vaporizable glass-forming compound such as herein described;
- (b) initiating a chemical vapor deposition reaction in the vapor mixture by a known heat source to generate a particulate sodium-containing vapor deposition product of sodium-containing glass particles, and collecting the vapor deposition product; and
- (c) the collected vapor deposition product is at least partially sintered to a sodium containing glass.

Compl. Specn. 21 Pages.

Drgs. 2 Sheets.

Ind. Cl.: 12 D & 129 Q [XXXIII (2) & XXXV]
Int. Cl.4: B 23 K 5/213

166815

A METHOD OF MANUFACTURING A PREHEATER FOR PREHEATING PIPES DURING WELDING AND PREHEATER THEREOF.

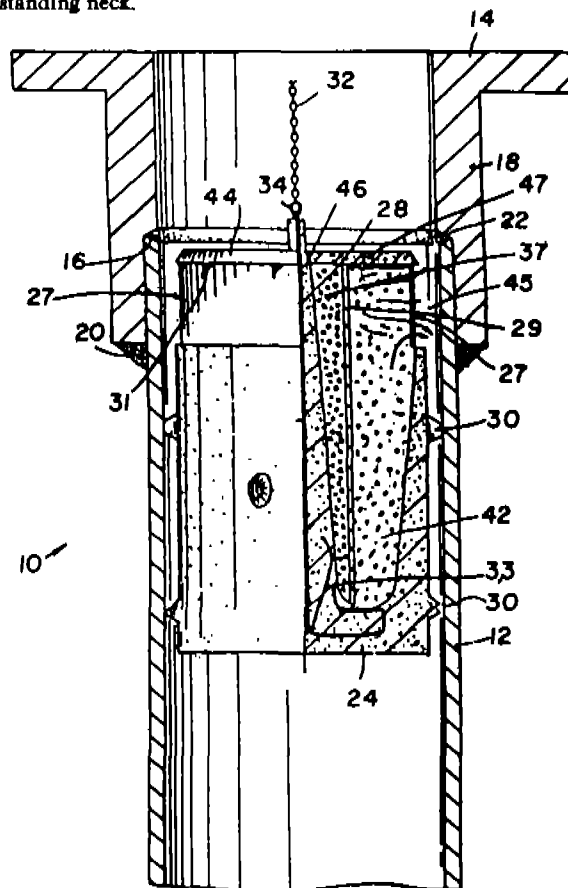
Applicant: HOT-HED, INC., A CORPORATION OF THE STATE OF TEXAS, U.S.A., OF 5322 ADDICKS-SATSUMA ROAD, HOUSTON, TEXAS 77218, U.S.A.

Inventor: LOUIS JASPER WARDLAW III

Application No.: 32/Maa/86 filed January 20, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

A method of manufacturing a preheater for preheating pipes during welding having a cast body with an upstanding neck extending from a bottom portion of said body with a deflector plate positionable on the upstanding neck which comprises the steps of: preparing a mold for casting said body; preparing a castable mixture of refractory cement in a known manner; pouring said castable mixture into mold to completely fill the mold; curing the said castable mixture in the mold submerged in water to form a casting; removing said casting from the mold; air drying said casting; curing said casting in an oven at a temperature of 250°F to 350°F; removing said casting from the oven and allowing to cool; packing in said casting a known combustible solid fuel which burns at a predetermined temperature for a specified interval to liberate heat in the form of hot gases; further curing said casting with the said fuel in an oven at a temperature of 300°F driving off all volatiles, and positioning a deflector plate on the upstanding neck.



Compl. Specn. 16 Pages.

Drg. 1 Sheet.

Ind. Class: 195-B-[GROUP-XXIX(3)]
Int. Cl.4: F 16 K 17/04.

166816

A PILOT OPERATED PRESSURE RELIEF VALVE SYSTEM.

Applicant: CROSBY VALVE & GAGE COMPANY, A MASSACHUSETTS CORPORATION, OF 43 KENDRICK STREET, WRENTHAM, MASSACHUSETTS 02093, U.S.A.

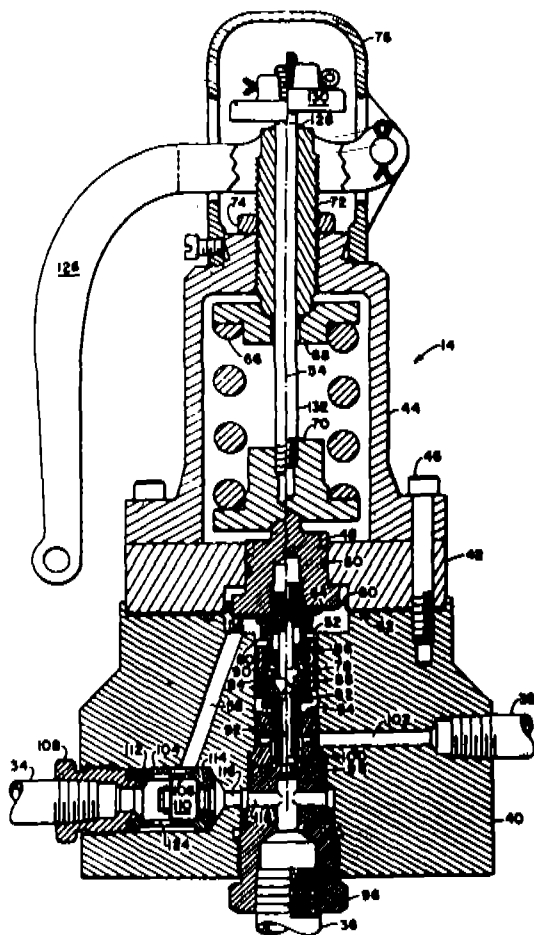
Inventor: ROBERT FRANCIS ESTES.

Application No. 159/Mas/86 filed March 7, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

7 Claims

A pilot operated pressure relief valve system having, in combination, a relief valve having a seat communication between an inlet and an outlet; a relief valve disc closable on the seat; a dome adapted to cause a pressure therein to apply a closing force to the valve disc; a pilot valve body forming a channel, portions of the channel respectively forming a chamber and an exhaust seat respectively communicating with the inlet and the dome, said body having an exhaust passage communicating with the dome through the exhaust seat; a sleeve movable in the channel and having an exhaust valve disc closable on the exhaust seat and a flow passage extending through an inlet seat and the exhaust valve disc, the flow passage having one end in communication with the chamber and the other end in communication with the dome; a control stem having a first portion forming a wall of the chamber movable axially of the channel in response to pressure changes in the chamber and a second portion forming an inlet valve disc closable on the inlet seat in the direction away from the exhaust seat; and spring means for applying a force to the control stem in opposition to the pressure force in the chamber.



Compl. specn. 18 pages

Drwgs. 2 sheets.

Int. Cl.: 35-C-[GROUP—XXV(2)]

166817

Int. Cl. 4: C 04 B 9/04.

5—G-157GI/90

A METHOD OF PREPARING A DRY BLEND SUITABLE FOR FORMING A FAST SETTING CEMENT.

Applicant: STAUFFER CHEMICAL COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A.; OF WESTPORT, CONNECTICUT-06881, U.S.A.

Inventors: (1) FAWZYGAMALELDIN SHERIF, (2) FRANCIS ANTHONY VIA.

Application No. 586/Mas/87 filed August 13, 1987.

Divisional to Patent No. 161685 (662/Mas/84); Ante-dated to August 28, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

6 Claims. No drawing

A method of preparing a dry blend suitable for forming a fast setting cement when reacted with water comprising dry blending 50% to 75% by weight of a solid phosphorus pentoxide containing material produced by mixing a porous material such as herein-before described with phosphorus pentoxide containing liquid selected from aluminium phosphate solution, phosphoric acid solution, ammonium phosphate solution, calcium phosphate solution and mixtures thereof and heating the mixture at a temperature of 60° to 200° C with a solid component comprising a known magnesium containing compound such as herein described, which is capable of being dry blended with said solid phosphorus pentoxide containing material without reacting therewith and capable of reacting with said phosphorus pentoxide containing material in the presence of water to form a monolithic solid, wherein the magnesium containing compound is from 25 to 50% of the total dry blend.

Compl. specn. 25 pages.

Ind. Cl.: 32-Fx(b)

166818

Int. Cl. 4: C 07 D 498/02.

A METHOD FOR PURIFYING CLAVULANIC ACID.

Applicant: ANTIBIOTICOS S.A. OF BRAVO MURILLO, 38,28015 MADRID, SPAIN, A SPANISH COMPANY.

Inventors: (1) JOSE LUIS FERNANDEZ PUENTES, (2) MIGUEL ANGEL MORENO VALLE, (3) FRANCISCO SALTO MALDONADO, (4) THOMAS OLLEROS IZARD, (5) LUIS COSTA PLA, (6) JOSE MARIA FERNANDEZ SOUSA-FARO.

Application No. 940/Mas/87 filed December 29, 1987.

Divisional to Patent No. 162768 (855/Mas/85) Ante-dated to October 28, 1985.

Appropriate Office for Opposition proceedings (Rule 4, Patents Rules, 1972), patent Office, Madras Branch.

6 Claims

A method for purifying clavulanic acid from a fermentation liquor obtained by cultivating clavulanic acid producing strain of Streptomyces in a liquid culture medium comprising the steps of

(a) extracting the clavulanic acid with a water-immiscible solvent;

(b) adding a solution of lithium 2-ethyl-hexanoate to the said extract allowing the lithium clavulanate to crystallise and

(c) isolating lithium clavulanate from the solvent and converting the lithium clavulanate into clavulanic acid by known means.

The compounds of this invention act as beta-lactamase inhibitors.

Compl. Specn. 22 Pages.

Dr. 1 Sheet.

Ind. Cl.: 55 D₂ [GROUP XIX (1)]
Int. Cl.⁴: A 01 N 25/08; 25/22

166819

A PROCESS FOR PRODUCING A STABILIZED SOLID INSECTICIDE COMPOSITION

Applicant: TAKEDACHEMICAL INDUSTRIES, LTD., OF 27, DOSHOMACHI 2-CHOME, HIGASHI-KU, OSAKA 541 JAPAN, A JAPANESE COMPANY.

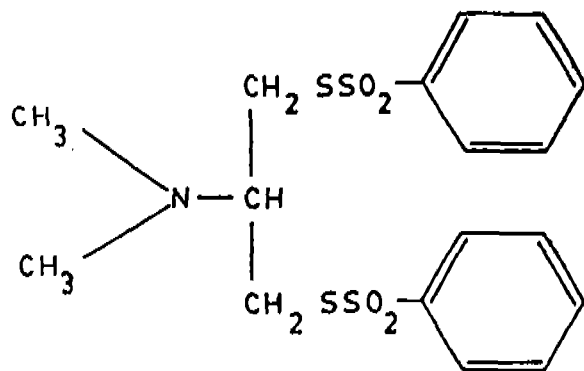
Inventors: (1) CHIKARA TANABAYASHI, (2) MASATOSHI SAWAMURA (3) YUKIE GOTOU

Application No.: 108/Mas/1988 filed February 22, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims

A process for producing a stabilized solid insecticide composition comprises admixing 0.1 to 90% by weight of the whole composition S, S'-[2-(dimethylamino) trimethylene] bis-benzene-thiosulfonate with at least one oxide compound in an amount of 0.1 to 100 parts by weight per part by weight of S, S'-[2-(dimethylamino) trimethylene] bis-benzenethiosulfonate, the said oxide compound being selected from the groups titanium oxide, calcium oxide, zinc oxide, magnesium oxide and boron oxide wherein the particle size of the oxide compound being not more than 100 μ m, and solid carriers such as herein described as the remaining ingredients.



Formula I

Compl. Specn. 29 Pages.

Dr. 1 Sheet.

Ind. Cl.: 55 D₂ [GROUP XIX (1)]
Int. Cl.⁴: A 01 N 25/08; 25/22

166820

A PROCESS FOR PRODUCING A STABILIZED SOLID INSECTICIDE COMPOSITION.

Applicant: TAKEDACHEMICAL INDUSTRIES, LTD., OF 27, DOSHOMACHI 2-CHOME, HIGASHI-KU, OSAKA 541, JAPAN, A JAPANESE INDUSTRY.

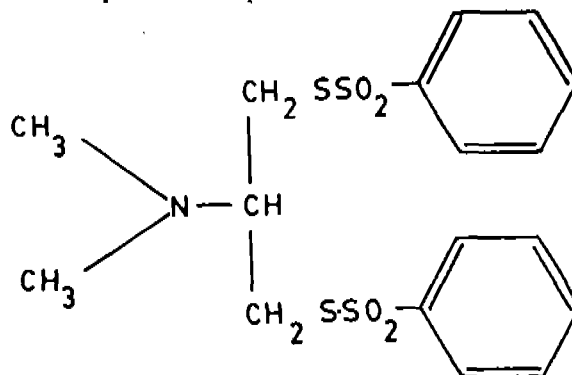
Inventors: (1) CHIKARA TANABAYASHI, (2) MASATOSHI SAWAMURA (3) TAKESHI KAWAKAMI.

Application No.: 135/Mas/1988 filed March 1, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims

A process for producing a stabilized solid insecticide composition, comprises compounding 0.1 to 90 parts by weight per 100 Parts by weight of the whole composition, of S, S'-[2-(dimethylamino) trimethylene] bisbenzenethio-sulfonate with 0.05 to 10 parts by weight per 100 parts by weight of the whole composition, of at least one acid selected from the group consisting of hydrochloric acid, hydrobromic acid, phosphoric acid, arenesulfonic acid dichloroacetic acid and oxalic acid and solid carriers such as herein described to make the total composition to 100 parts.



Formula I

Compl. Specn. 29 Pages.

Dr. 1 Sheet.

CLASS: 194 C₄, 206 E
Int. Cl.⁴: HO 1L 15/02.

166821

PROCESS OF MANUFACTURING A SEMICONDUCTOR FILM BY DEPOSITING AN AMORPHOUS SEMICONDUCTOR MATERIAL ON A SUBSTRATE.

Applicant: THE STANDARD OIL COMPANY, AN OHIO CORPORATION, HAVING A PLACE OF BUSINESS AT PATENT & LICENSE DIVISION, MIDLAND BUILDING, CLEVELAND, OHIO 44115, UNITED STATES OF AMERICA.

Inventors: HENRY WINDISCHMANN, JOHN ROBERT MILLER, DAVID APPLER GLOCKER & SCOTT FRANCIS GRIMSHAW.

Application for Patent No.: 334/Del/1985 filed on 19th April, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

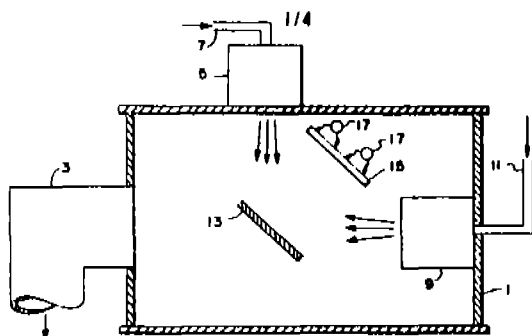
19 Claims

A process of manufacturing a semiconductor film by depositing an amorphous semiconductor material on a substrate of the kind such as herein described, said process comprising :

directing a first beam of sputtering ions against a first target of a semiconductor material such as herein described from which the film is to be formed, to sputter said semiconductor material from said first target;

directing a second beam of passivating ions having energies not exceeding 200 electron volts against said first target; and

deposition of the semiconductor material sputtered from said first target on said substrate located remotely from said beams and the target to form said film.



Compl. Specn. 16 Pages.

Drgs. 4 Sheet.

Ind. Cl. : 39 E III
Int. Cl⁴ : B 01 J 21/00.

166822

"METHOD OF MANUFACTURING A SUPPORTED CATALYST FOR THE COPOLYMERISATION OF ETHYLENE IN GAS PHASE"

Applicant: BP CHEMICALS LIMITED, A BELGRAVE HOUSE, 76 BUCKINGHAM PALACE ROAD, LONDON SW1W 0SU, ENGLAND, A BRITISH COMPANY.

Inventor(s): JOELLE COLLOMB CECCARINI & PIERRE CROUZET.

Application for Patent No. : 960/Del/1985 Filed on 18th November, 1985.

Convention date November 19, 1984/468123 (CANADA).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

8 Claims

Method of manufacturing a supported catalyst for the copolymerisation of ethylene in gas phase with at least one higher alpha-olefin containing from 3 to 8 carbon atoms, the support of the catalyst containing basically magnesium chloride and optionally aluminium chloride and occurring in the form of spheroidal particles having a mean diameter by mass comprised between 10 and 100 microns and a particle size distribution such that the ratio of the mean diameter by mass D_m to the mean diameter by number D_n is less than

or equal to 3, on which support there is precipitated a metal of a transition compound belonging to Groups IV, V and VI of the Periodic Table of Elements, characterised in that the precipitation is performed by a reduction reaction in two stages of a compound of the said transition metal taken at its maximum valency, the first stage of the reduction reaction being carried out by means of a reducing agent chosen from among dialkylaluminium dihalides of the formula $Al(R_a)_2X_2$ in which R_a is an alkyl group containing from 2 to 12 carbon atoms and X is a chlorine or bromine atom, the second stage of the reduction reaction being carried out by means of another reducing agent chosen from among the organo-metallic compounds of metals belonging to Groups II and III of the Periodic Table of Elements and having in respect of the compounds of the said transition metals a greater reducing power than that of the alkylaluminium dihalides, the relative molar quantities of the various compounds employed being such that :

magnesium chloride and the optional aluminium chloride of the support/transition metal compound comprises between 1 and 50, preferably comprises between 2.5 and 10,

alkylaluminium dihalide used in the first stage of the reduction reaction/transition metal compound, comprises between 0.2 and 2, preferably comprises between 0.3 and 0.8,

reducing agent used in the second stage of the reduction reaction/transition metal compound, comprises between 0.1 and 2, preferably comprises between 0.3 and 0.6, at least 10% of the total quantity of the transition metal compound employed reaction in the first stage of the reduction reaction with the alkylaluminium dihalide.

Compl. Specn. 33 Pages.

Ind. Cl. : 140
Int. Cl⁴ : C 10 M 105/72.

166823

AN OIL SOLUBLE LUBRICANT COMPOSITION.

Applicant: THE LUBRIZOL CORPORATION, OF 29400 LAKELAND BOULEVARD WICKLIFFE, OHIO 44092 U.S.A., A CORPORATION OF THE STATE OF OHIO, U.S.A.

Inventor(s): STEPHEN AUGUSTINE DIBIASE KIRK EMERSON DAVIS, THOMAS ANTONY TAGLIAMONTE.

Application for Patent No. 71/Del/1986 filed on 24th January, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

22 Claims

An oil-soluble lubricant composition which comprises :

- (a) at least one metal salt of the kind such as herein described of at least one dithiocarbamic acid of the formula:
 $R_1(R_2)N-CSSH$

Wherein R_1 and R_2 are each independently hydrocarbyl groups in which the total number of carbon atoms in R_1 and R_2 is sufficient to render the metal salt oil-soluble, and

- (b) at least one oil-soluble sulfurized organic compound of the kind such as herein described wherein the weight ratio of (A) to (B) is in the range from 1 : 10 to 50 : 1; and

- (c) at least one auxiliary corrosion-inhibitor of the kind such as herein described wherein the weight ratio of (C) to the mixture of (A) and (B) is from 0.00 1 : 1 to 0.5 : 1.

Compl. Specn. 96 Pages.

Drgs. 4 Sheets.

Ind. Cl.: 144 E₂
Int. Cl.⁴: C 09 D 5/32.

166824

"A METHOD FOR PRODUCING AN INSULATING PAINT COMPOSITION."

Applicant: TIHANA PTY. LIMITED, A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF NEW SOUTH WALES, AUSTRALIA, OF 47 NEREDA STREET, CHARSWOOD, NEW SOUTH WALES 2067, AUSTRALIA.

Inventor: RAYMOND BROOKS.

Application for Patent No. 163/Del/1986 filed on 25th February, 1986.

Convention date March 8, 1985/PG 9629 (AUSTRALIA).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

8 Claims

A method for producing an insulating coating composition comprising mixing 40—98% of a conventional hardenable liquid paint base of the kind as hereinbefore described, 1 to 60% of bagasse and 1 to 60% of silica where in the total weight of bagasse and silica does not exceed 60% by weight of the total composition.

Compl. Specn. 21 Pages.

Drgs. 2 Sheets.

Ind. Cl.: 3 A 1
Int. Cl.⁴: B 64 C 13/00

166825

FLUID-PRESSURE-OPERABLE ACTUATOR FOR USE IN AN ACTUATOR CONTROL DEVICE."

Applicant: DOWTY BOULTON PAUL LIMITED, A BRITISH COMPANY, OF PENDEFORD LANE, WOLVERHAMPTON, WEST MIDLANDS, ENGLAND.

Inventor(s): ARTHUR DEREK MOUNTNEY, JAMES ROPER.

Application for Patent No.: 327/Del/1986 filed on 10 April, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

8 Claims

A fluid pressure operable actuator (2, 3, 4) for use in an actuator control device which actuator comprises:

A casing (5, 6, 7) having an aperture therein;

a piston (22) slidably housed in the casing;

an output member (12, 13, 14) extending from the piston and through the aperture;

first annular sealing means (42) between the piston and the casing;

second annular sealing means disposed in the aperture between the output member and the casing; and

at least one circumferentially extending bearing means which flanks an annular sealing means,

which bearing means (31, 32, 52, 53, 54) is in slidable engagement with a surface of the actuator and is readily deformable, by projections caused by extraneous matter, so as to allow movement between the piston and casing, wherein the bearing means comprises a member of readily deformable material which is fitted in to at least one circumferentially extending groove; and, at least one readily deformable fin member.

Compl. Specn. 20 Pages.

Drgs. 3 Sheets.

Ind. Cl.: 114F
Int. Cl.⁴: C14C 3/14.

166826

A PROCESS FOR THE PREPARATION OF WATER DISPERSIBLE MALEINISED FATTY DERIVATIVES FOR INCORPORATION IN TANNED LEATHERS FOR IMPARTING WATER REPELLENCY.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors: SCHOLINGA CANTHADA SUMATHI, VEMU VENKATA MURALIDHARA RAO, VENKATESWARAN HARIBABU, POLUR KRISHNAIAH, KRISHNA BALLABH GUPTA.

Application for Patent No. 532/Del/86 filed on 17th June, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110003.

6 Claims

A process for the preparation of water dispersible maleinised fatty derivatives for incorporation in tanned leathers for imparting water repellency which comprises reacting mono/diethanol amines with glycerides of fatty acids such as herein described followed by reacting the resultant product with maleic anhydride and then neutralising the reaction product to PH 6.5—7.00.

Compl. Specn. 6 Pages.

Ind. Cl.: 32 f 2 (b)
Int. Cl.⁴: C07d 489/00.

166827

AN IMPROVED PROCESS FOR THE PREPARATION OF ETHYL MORPHINE.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : NAGARAJ RAMANUJ AYYANGAR, ANIL RAM-KUMAR CHOUDHARY, UTTAM RAMRAO KALKOTE & VASANT KAUSHAL SHARMA.

Application for patent No. 571/Del/86 filed on 30th June, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, New Delhi-110005.

8 Claims

An improved process for the preparation of ethyl morphine of the formula shown in Fig. A

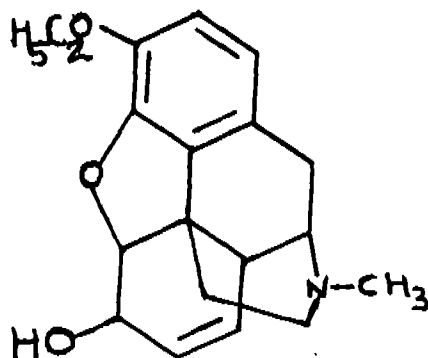


Fig. A

of the accompanying drawing, which comprises reacting morphine of the formula shown in Fig. B

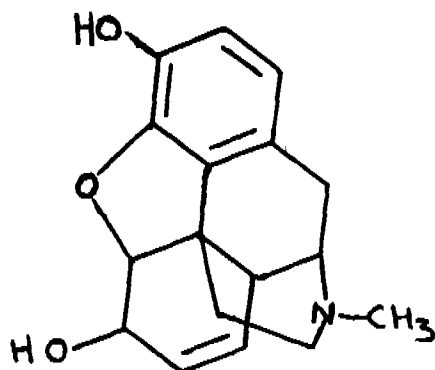


Fig. B

with diethyl sulphate of the formula shown in Fig. C

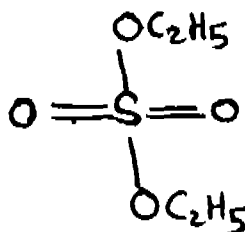


Fig. C

characterised in that the reaction is carried out in the presence of an alkali metal carbonate and a phase transfer catalyst such as herein described, in hydrocarbon solvents such as herein described or their mixtures at a temperature in the range of 30 to 120°C.

Compl. specn. 9 pages

Drg. 1 sheet.

Ind. Cl. : 126 D

166828

Int. Cl.⁴ : G01L 3/00; G01L 25/00.

A DEVICE FOR TESTING THE EFFICIENCY OF AN ION GENERATOR.

Applicant : UMA SHANKER CHAURASIA & BHANU SHANKER CHAURASIA OF MODERN BALANCE WORKS, A REGISTERED PARTNERSHIP FIRM OF D-54/19, AURANGABAD, VARANASI-221001 (U.P.), INDIA.

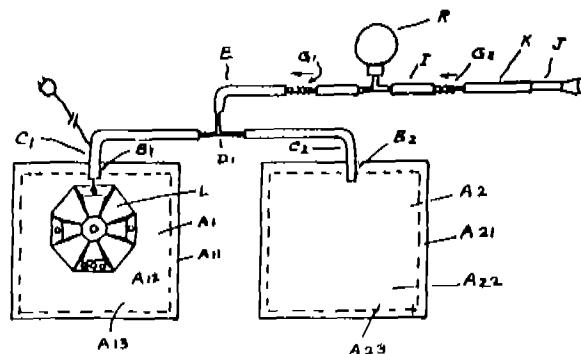
Inventors : BHANU SHANKER CHAURASIA.

Application for patent No. 643/Del/86 filed on 18 July, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, New Delhi-110005.

5 Claims

A device for testing the efficiency of an ion generator (L) comprising a first (A1) and second (A2) compartment, each of said compartments having an opening (B1, B2) for locating an inlet tube (C1, C2) for introduction of smoke therein, smoke generating means connected to said inlet tubes, an ion generator (L) being disposed within one of said compartments.



Compl. specn. 5 pages

Drg. 1 sheet.

Ind. Cl. : 6 A 2

166829

Int. Cl.⁴ : F01B 3/00.

WOBBLE PLATE TYPE COMPRESSOR WITH A VARIABLE DISPLACEMENT MECHANISM.

Applicant : SANDEN CORPORATION, A JAPANESE COMPANY, OF 20 KOTOBUKI-CHO, ISESAKI-SHI, GUNMA 372 JAPAN.

Inventors : KIYOSHI TERAUCHI.

Application for Patent No. 995/Del/86 filed on 13th November, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, New Delhi-110005.

5 Claims

A wobble plate type compressor with a variable displacement mechanism, the compressor including a compressor housing (3) provided with a crank chamber (32) and a cylinder block (31) in which a plurality of cylinders (33) are formed a drive shaft (7) rotatably supported in the housing, a rotor (10) fixed on the drive shaft and having a variably inclined plate (12), a wobble plate (15) adjacent to the inclined plate and coupled with a plurality of pistons (20) each being

reciprocally fitted within a respective one of the cylinders : characterise in that a central hole (124) is formed through the inclined plate for penetration of the drive shaft, an inner surface of said central hole partly contacting an outer peripheral surface of the drive shaft to restrict radial movement of the plate while permitting variation in the inclination thereof.

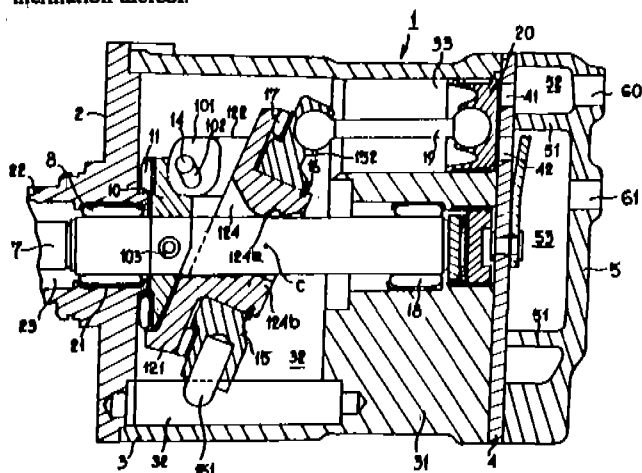


Fig. 2

Compl. specn. 11 pages

Drgs. 6 sheets.

Ind. Cl. : 39—0

166830

Int. Cl.⁴ : C 01 B 33/32.

A PROCESS FOR THE ENRICHMENT OF SILICA IN COMMERCIAL SODIUM SILICATE SOLUTIONS.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors: ARUN KUMAR DAY, ARBIND NATH MUKHERJEE, PERI PRABHAKARAN.

Application for Patent No. 1145/Del/86 filed on 24 December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

4 Claims

An improved process for the enrichment of silica in commercial sodium silicate solution which comprises adding hydrated silica obtained from ethyl silicate-40 to the commercially available sodium silicate solution having a Na₂/SiO₂ ratio 1 : 1.8 to 1 : 2.2 with stirring, simultaneously adding de-ionized water to the solution to control the viscosity of the silica, keeping the solids contents in the solution to about 30%.

Compl. specn. 4 pages.

Ind. Cl. : 132-C

166831

Int. Cl. : B 30 b 9/02.

METHOD FOR EXTRACTING SOLUBLE LIQUIDS FROM SOLIDS.

Applicant: VITAMINS, INC., OF 200 EAST RANDOLPH DRIVE, CHICAGO, ILLINOIS 60601, U.S.A.

Inventor: WAYNE K RICE.

Application No. 661/Cal/1986 filed September 02, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

15 Claims

A method of extracting soluble liquid materials from solids which comprises :

contacting a solid material to be extracted with a selected quantity of an extracting fluid such as herein described at a selected elevated pressure such as herein described within a defined space such as herein described to obtain a fluid mixture of said extracting fluid described to obtain a fluid mixture of said extracting fluid and soluble liquid material present in said solid material to be extracted within said defined space;

discharging said fluid mixture, from said defined space to an environment of lower pressure;

mechanically maintaining said elevated pressure within said defined space as said fluid mixture is discharged by reducing the volume of said defined space at a rate selected to maintain said elevated pressure as the fluid mixture is removed from said defined space while remaining solid material is compacted as the volume of said defined space is reduced.

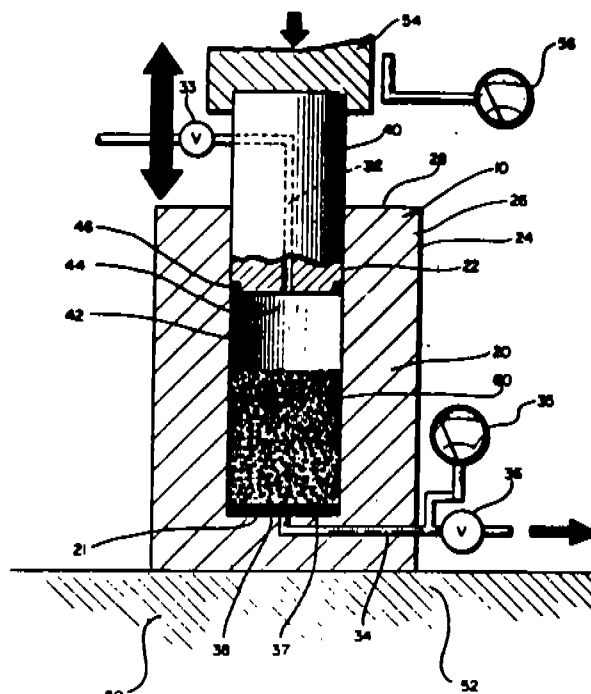


Fig. 1

Compl. specn. 37 pages

Drgs. 2 sheets.

Int. Cl. : B 07 b 7/00

166832

APPARATUS FOR FEEDING A BODY OF PARTICULATE MATERIAL AND TRANSPORTATION THEREOF ON PARTICLE BY PARTICLE BASIS.

Applicant: CRA SERVICES LIMITED, OF 55 COLLINS STREET, MELBOURNE, 3000, VICTORIA, AUSTRALIA.

Inventors: (1) ALBERT PETER HAWKINS, (2) DAVID SANTWYK ANDERSON.

Application No. 713/Cal/1986 filed September 29, 1986.

Convention dated September 30, 1985; No. PH 02669; AUSTRALIA.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Calcutta.

8 Claims

Apparatus for feeding a body of particulate material and transportation thereof on particle by particle basis, that is of individual particles, from said body comprising:

a rotary feed structure rotatable about an axis and provided with a plurality of suction ports spaced circumferentially about the axis of rotation;

suction means to apply suction to the suction ports during rotation of the rotary feed structure; and

particle presentation means such as herein described, to receive the body of particles and to present the particles present in said body of particles to the various suction ports of the rotary structure whereby only individual particles from said body of particles are held to each suction port by suction and from there transported particle by particle in an accurate path during the rotary movement of the feed structure.

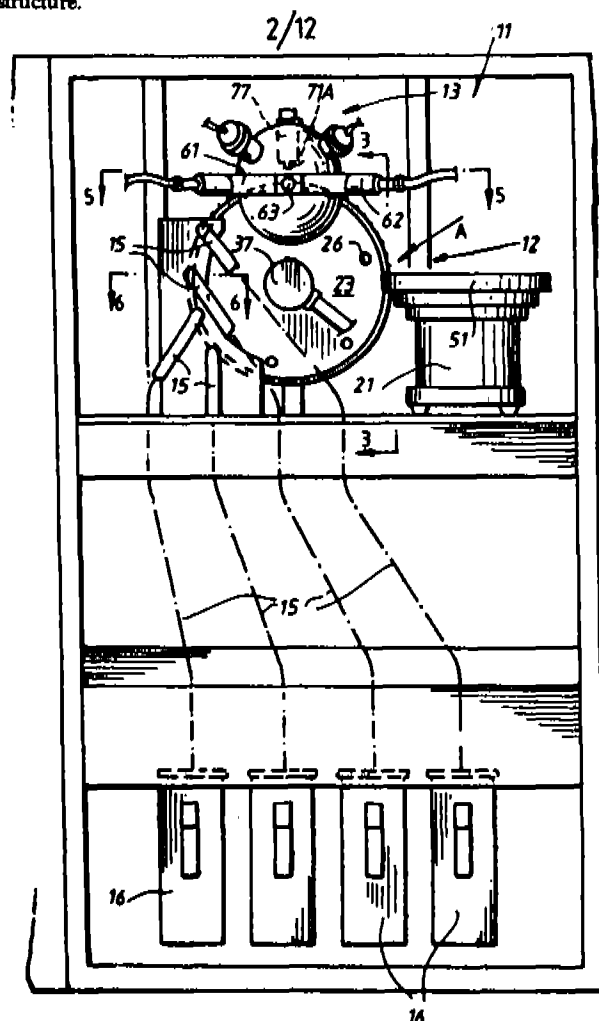


Fig. 2

Compl. specn. 25 pages

Drgs 2 sheets.

Class: 201-C; 55-E4

166833

Int. Class: A 61 k 31/19, 45/00; C 02 f 1/50.

METHOD OF MANUFACTURING DRY COMPOSITION SUITABLE FOR USE IN WATER TO REDUCE BACTERIAL CONTENT.

Applicant: CADBURY SCHWEPPE'S PROPRIETARY LIMITED, OF 636 ST KILDA ROAD, MELBOURNE, VICTORIA, COMMON WEALTH OF AUSTRALIA.

Inventors: (1) MICHAEL GRACY, (2) FRANK HOPKINS, (3) JENNIFER ROBINSON, (4) STEPHEN SNOW.

Application No. 776/Cal/1986 filed October 23, 1986.

Convention dated 25th October, 1985; No. PH 3095; Australia and 8th May, 1986; No. PH 5813; Australia.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A method of manufacturing a dry composition useful for its antibacterial activity when dissolved in water, wherein the following ingredients are mixed in amounts, as specified, that will deliver the specified number of grams per 100 ml of made up beverage:

Ascorbic Acid—0.001-1.0

Malic Acid and/or Tartaric Acid—0.01-1.0

Citric acid—0.000-1.75

Sodium Saccharin and/or Calcium Saccharin—0.000-0.1

Sodium Benzoate (Benzoic acid)—0.001-0.34.

Compl. specn. 12 pages.

Drgs. Nil

Class: 40-F, 77-D.

166834

Int. Class: B 01 l 11/00; C 11 b 3/00

A CONTINUOUS METHOD OF DEODORISING OR UNACIDIFYING FOOD OILS FATS AND APPARATUS THEREFOR.

Applicant: ANTHONY ATHANASSIADIS, OF AVENUE JULES CESAR 74, B-1150 BRUXELLES, BELGIUM.

Inventor: ANTHONY ATHANASSIADIS.

Application No. 144/Cal/1987 filed February 25, 1987

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

20 Claims.

A continuous method of dedorising and/or unacidifying a liquid, e.g. food oils and fats, such as herein described, at a predetermined temperature such as herein described, necessary for deacidification and pressure such as herein described, which is low enough to avoid hydrolysing of the glycerides in the liquid, characterised in that the said liquid is subjected to a slow vertical translation from top to bottom, and vapour, such as steam, are passed through said liquid in counter current causing thorough turbulence in the liquid flowing in the opposite direction and completely dispersed in it, the vapour-

rising upwards in the form of bubbles carrying the odori ferrous materials.

Compl. specn. 17 pages.

Drgs 3 sheets

Class : 146-A; D1, 2

166835

Int. Class : G 01 c 3/00, 5/00, 15/08;
G 01 d 9/00.

STEPPING STAFF FOR MEASURING HEIGHTS IN BUILDING WORKS EXCAVATIONS AND THE LIKE.

Applicant & Inventor: RICHARD JOHN SCHAFER, OF 12 ROBERTS STREET, FRANKSTON, VICTORIA, AUSTRALIA.

Application No. 159/Cal/1987 filed March 02, 1987.

Convention dated March 06, 1986; No. PH 04936; Australia.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

A stepping staff for measuring heights in building works excavations and the like, said stepping staff having a plurality of sections coupled together for movement relative to one another, at least one of said plurality of said sections having a plurality of sets of coupling means, and an adjacent one of the sections having engaging means for engaging with one of the coupling means in one of the sets, each coupling means in each set of coupling means being spaced apart by a prescribed distance the prescribed distance between coupling means in one set of coupling means being different to the prescribed distance between coupling means in another of the sets of coupling means and wherein upon relative movement of the at least one section and adjacent section, one coupling means on the at least one section can be coupled with the engaging means on the adjacent section and wherein said plurality of sections are rotatable relative to one another to enable the engaging means to engage with a coupling means in any of the sets of coupling means.

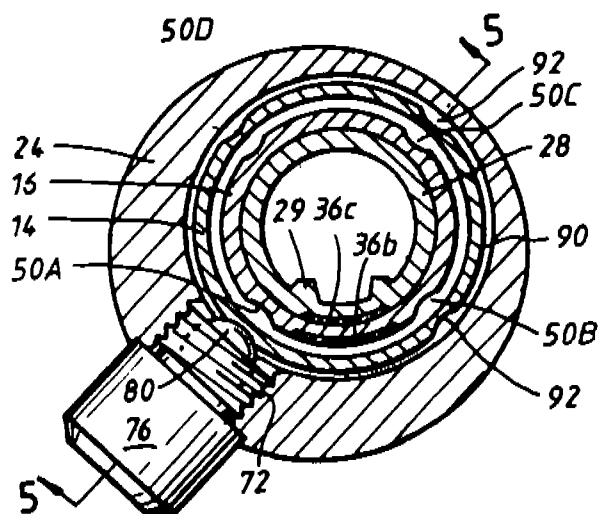


Fig. 2

Compl. specn. 16 pages

Drgs. 3 sheets

Int. Class : B 66 b 1/00

166836

A POINT MATRIX DISPLAY DECODER PROGRAMMING MEANS.

Applicant: KONE ELEVATOR GMBH, OF RATHAUS-TRASSE 1, CH-6340 BAAR, SWITZERLAND.

Inventor: SEPPO OVASKA.

Application No. 170/Cal/1987 filed March 04, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

5 Claims.

A point matrix display decoder programming means for programming the decoder (1) of the point matrix display (2) of a lift's floor level indicator, characterised in that the said means comprises a symbol matrix (9) corresponding to said matrix display, with the aid of which the desired symbol can be formed; switches (14) for selecting the desired symbol decoder memory address; programming logics (4-7) for controlling a memory circuit in the point matrix display decoder (1) said programming logics (4-7) featuring bidirectional data transfer so that the memory circuit of the decoder (1) can be placed in write or read mode, and a parallel interface (8) for transferring the image information contained in the symbol matrix (9) to said memory circuit in parallel mode.

Compl. specn. 8 pages.

Drgs. 2 sheets.

Class : 108-B1; C1,

166837

Int. Class : C 21 b 13/00.

A METHOD FOR THE MELT REDUCTION OF IRON ORES.

Applicant: KLOCKNER CRA PATENT GMBH, OF KLOCKNERSTRASSE 29, 4100 DUISBURG, WEST GERMANY.

Inventors: (1) DR. TRENNA TURNER, (2) PROF. DR. KARL BROTZMANN (3) DR. RERNAT, HANS-GEORG PASSBINDER

Application No. 171/Cal/1987 filed March 05, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

11 Claims.

A method for the melt reduction of iron ores, in which the iron oxide is reduced substantially in the liquid state and the energy required for the heat balance of the process is generated by adding carbonaceous fuels to the melt and by after burning the resulting reaction gases, mainly CO and H₂ characterized in that the reaction gases are after burned successively two or more times in oxygen-containing gas jets that blow into reaction spaces which are independent of each other.

Compl. specn. 12 pages

Drgs. 3 sheets.

Class : 108-B1.

166838

Int. Class : C 21 b 13/00.

A METHOD FOR PRODUCING IRON.

7 Claims.

Applicant: KLOCKNER CRA PATENT GMBH, OF KLOCKNERSTRASSE 29, 4100 DUISBURG, WEST GERMANY.

Inventors: (1) DR. RICHARD EDWIN TURNER, (2) KARL BROTMANN, (3) JONNATHAN PAUL MOODIE.

Application No. 172/Cal/1987 filed March 05, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

A method for producing iron in an elongated reaction vessel provided with underbathnozzles and top blowing means, in which carbonaceous fuels, iron ore and/or prereduced ore are fed to the melt and in which the reaction gases escaping from the melt are afterburned with oxygen-containing gases in one or more stages, characterized in that the waste gas aperture of the reaction vessel is offset from the reaction zone of the carbonaceous fuels and thus disposed outside the eruption and splashing area, and the waste gas temperature in the waste gas conduit connected to the waste gas aperture is held above the solidifying temperature of the iron droplets carried along in the waste gas stream, and the waste gas is then cooled to less than 1000°C in an adjoining chamber.

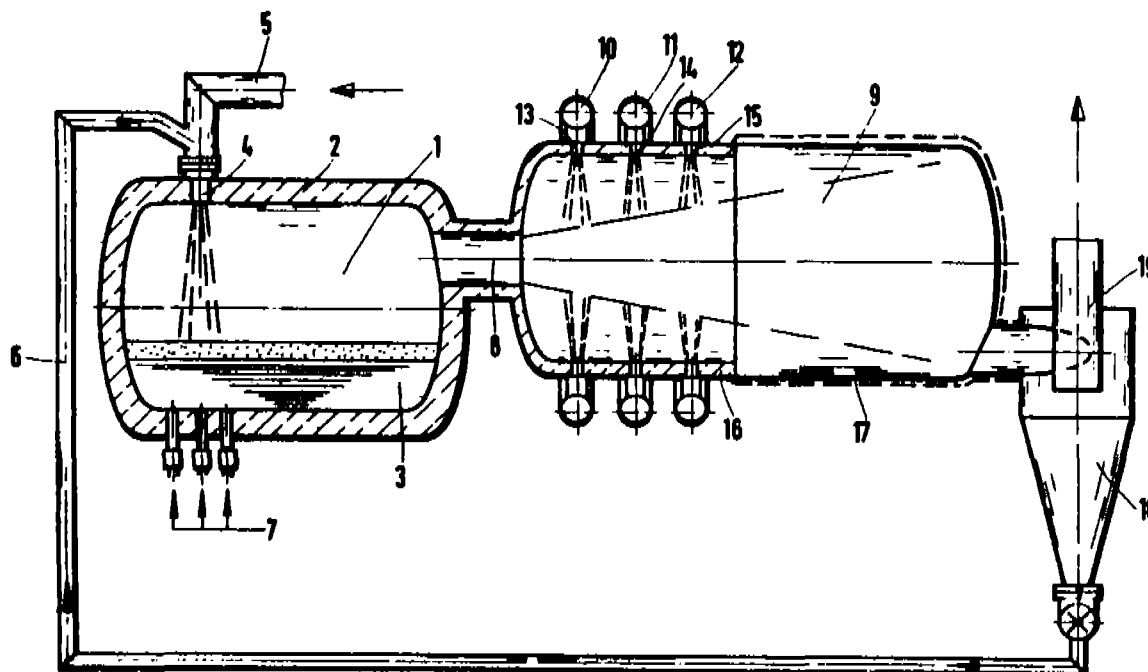


Fig. 1

Compl. specn. 9 pages

Drg. 1 sheet

Class: 32-A1

166839

Int. Class: C 09 b 29/00, 62/00.

WATER SOLUBLE MIXTURES OF MONOAZO DYE-STUFFS.

Applicant: HOECHST CELANESE CORPORATION, OF ROUTE 202-206 NORTH, SOMERVILLE, NEW JERSEY 08876, U.S.A.

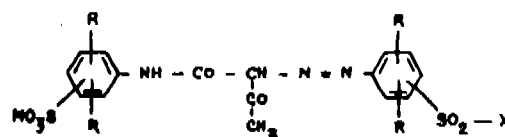
Inventors: (1) THOMAS STEPHEN PHILLIPS, (2) ANTHONY JOSEPH CORSO.

Application No. 220/Cal/1987 filed March 19, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

10 Claims

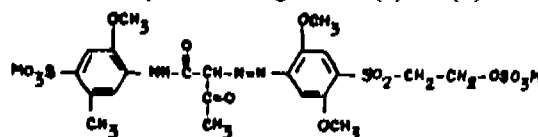
A water-soluble mixture of monoazo dyestuffs comprising a first and a second azo dyestuff conforming to the general formula (I)
6-G-157GL/90



Formula (I)

wherein R is each independently selected from alkyl of 1 to 4 carbon atoms, alkoxy of 1 to 4 carbon atoms or hydrogen, with the proviso that at least one of said R moieties is selected from alkyl of 1 to 4 carbon atoms in at least one of said dyestuffs and that each of said dyestuffs contains at least two R moieties selected from alkoxy of 1 to 4 carbon atoms, X is the β -sulfoethyl group and M is a hydrogen atom or an alkali metal, the mixture being selected from:

the mixture comprising upto 95% by wt. of the first dyestuff and at least 5% by wt. of the second dyestuff, the first dyestuff being selected from the dyestuffs having formula (A) and (B) and the second dyestuff selected from the dyestuffs having formula (B) and (C)



Formula (A)

